

SEQUENCE LISTING

<110> Keio University

<120> PROTEIN FORMING COMPLEX WITH C-Jun PROTEIN, NUCLEIC ACID ENCODING THE SAME
AND METHOD OF USING THE SAME

<130> P595-C4285

<150> JP 2003-389676

<151> 2003-11-19

<160> 299

<210> 1

<211> 102

<212> PRT

<213> Mus musculus

<400> 1

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Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu
1      5      10      15
Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu
20      25      30
Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr
35      40      45
Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu His
50      55      60
Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu Lys Leu Ser Thr
65      70      75      80
Arg Ser Pro Met Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu
85      90      95
Glu Glu Glu Ser Asp Ser
100

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<210> 2

<211> 86

<212> PRT

<213> Mus musculus

<400> 2

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Val Glu Gly Ser Ala Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu
1      5      10      15
Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala
20      25      30
Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln
35      40      45
Ser Val Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro
50      55      60
Ala Pro Glu Gln Leu Cys Asp Met Ser Leu His Val Asp His Glu Val
65      70      75      80
Thr Ile Asn Gln Thr Thr
85

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<210> 3

<211> 84

<212> PRT

<213> Mus musculus

<400> 3

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Ser Ala Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu
1      5      10      15
Arg Lys Glu Glu Glu Thr Gln Leu Arg Leu Lys Ala Ala Leu His Asp
20      25      30

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Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile
 35 40 45
 Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu
 50 55 60
 Gln Leu Cys Asp Met Ser Leu His Val Asp His Glu Val Thr Ile Asn
 65 70 75 80
 Gln Thr Thr Leu

<210> 4
 <211> 83
 <212> PRT
 <213> Mus musculus

<400> 4
 Ser Ala Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu
 1 5 10 15
 Arg Lys Glu Glu Glu Thr Gln Leu Arg Leu Lys Ala Ala Leu His Asp
 20 25 30
 Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile
 35 40 45
 Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu
 50 55 60
 Gln Leu Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn
 65 70 75 80
 Gln Lys Leu

<210> 5
 <211> 83
 <212> PRT
 <213> Mus musculus

<400> 5
 Ser Ala Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu
 1 5 10 15
 Arg Lys Glu Glu Glu Thr Gln Leu His Leu Lys Ala Ala Leu His Asp
 20 25 30
 Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile
 35 40 45
 Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu
 50 55 60
 Gln Leu Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn
 65 70 75 80
 Gln Lys Leu

<210> 6
 <211> 83
 <212> PRT
 <213> Mus musculus

<400> 6
 Ser Ala Leu Arg Lys Trp Lys Gly Val Leu Ser Arg Leu Gln Glu Leu
 1 5 10 15
 Arg Lys Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp
 20 25 30
 Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile
 35 40 45
 Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu
 50 55 60
 Gln Leu Cys Asp Met Ser Leu His Val Asp His Glu Val Thr Ile Asn
 65 70 75 80
 Gln Ser Lys

<210> 7
 <211> 65
 <212> PRT
 <213> Mus musculus

<400> 7
 Ser Ala Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu
 1 5 10 15
 Arg Lys Glu Glu Glu Thr Gln Leu Arg Leu Lys Ala Ala Leu His Asp
 20 25 30
 Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile
 35 40 45
 Asn Ser Arg Arg Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu
 50 55 60
 Ser
 65

<210> 8
 <211> 75
 <212> PRT
 <213> Mus musculus

<400> 8
 Ala Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg
 1 5 10 15
 Lys Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln
 20 25 30
 Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn
 35 40 45
 Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln
 50 55 60
 Leu Cys Asp Met Ser Leu His Val Asp Asn Glu
 65 70 75

<210> 9
 <211> 95
 <212> PRT
 <213> Mus musculus

<400> 9
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys
 1 5 10 15
 Glu Glu Glu Thr Leu Leu Arg Gln Lys Ala Ala Leu His Asp Gln Leu
 20 25 30
 Asn Arg Leu Lys Val Glu Glu Leu Pro Leu Gln Ser Met Ile Asn Ser
 35 40 45
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu
 50 55 60
 Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr
 65 70 75 80
 Thr Leu Lys Leu Ser Thr Arg Ser Pro Met Glu Glu Lys Glu Glu
 85 90 95

<210> 10
 <211> 82
 <212> PRT
 <213> Mus musculus

<400> 10
 Pro Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys
 1 5 10 15
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu
 3

Asn	Arg	Leu	Lys	Val	Glu	Glu	Leu	Ala	Leu	Gln	Ser	Met	Ile	Asn	Ser
		35					40					45			
Arg	Gly	Arg	Thr	Glu	Thr	Leu	Ser	Ser	Gln	Pro	Ala	Pro	Glu	Gln	Leu
	50					55					60				
Cys	Asp	Met	Ser	Leu	His	Val	Asp	Asn	Glu	Val	Thr	Ile	Asn	Gln	Thr
65					70					75					80
Thr	Arg														

<210> 11
 <211> 82
 <212> PRT
 <213> Mus musculus

Leu	Arg	Lys	Trp	Lys	Gly	Met	Leu	Ser	Arg	Leu	Gln	Glu	Leu	Arg	Lys
1				5					10					15	
Glu	Glu	Glu	Thr	Leu	Leu	Arg	Leu	Lys	Ala	Ala	Leu	His	Asp	Gln	Leu
			20					25					30		
Asn	Arg	Leu	Lys	Val	Glu	Glu	Leu	Ala	Leu	Gln	Ser	Met	Ile	Asn	Ser
		35					40					45			
Arg	Gly	Arg	Thr	Glu	Thr	Leu	Ser	Phe	Gln	Pro	Ala	Pro	Glu	Gln	Leu
	50					55					60				
Cys	Asp	Met	Ser	Leu	His	Val	Asp	Asn	Glu	Val	Thr	Ile	Asn	Gln	Thr
65					70					75					80
Thr	Arg														

<210> 12
 <211> 61
 <212> PRT
 <213> Mus musculus

Leu	Arg	Lys	Trp	Lys	Gly	Met	Leu	Ser	Arg	Leu	Gln	Glu	Leu	Arg	Lys
1				5					10					15	
Glu	Glu	Glu	Thr	Leu	Leu	Arg	Leu	Lys	Ala	Ala	Leu	His	Asp	Gln	Leu
			20					25					30		
Asn	Arg	Leu	Lys	Val	Glu	Glu	Leu	Ala	Leu	Gln	Ser	Met	Ile	Asn	Ser
		35					40					45			
Arg	Gly	Arg	Thr	Glu	Thr	Leu	Ser	Ser	Gln	Pro	Ala	Arg			
	50					55					60				

<210> 13
 <211> 53
 <212> PRT
 <213> Mus musculus

Leu	Arg	Lys	Trp	Lys	Gly	Met	Leu	Ser	Arg	Leu	Arg	Glu	Leu	Arg	Lys
1				5					10					15	
Glu	Glu	Glu	Thr	Leu	Leu	Arg	Leu	Lys	Ala	Ala	Leu	His	Asp	Gln	Leu
			20					25					30		
Asn	Arg	Leu	Lys	Val	Glu	Glu	Leu	Ala	Leu	Gln	Ser	Met	Ile	Asn	Ser
		35					40					45			
Arg	Gly	Arg	Thr	Glu											
	50														

<210> 14
 <211> 51
 <212> PRT
 <213> Mus musculus

<400> 14
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Gly Leu Arg Lys
 1 5 10 15
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu
 20 25 30
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser
 35 40 45
 Arg Gly Lys
 50

<210> 15
 <211> 86
 <212> PRT
 <213> Mus musculus

<400> 15
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys
 1 5 10 15
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu
 20 25 30
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser
 35 40 45
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu
 50 55 60
 Cys Asp Met Tyr Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr
 65 70 75 80
 Thr Leu Lys Leu Ser Thr
 85

<210> 16
 <211> 82
 <212> PRT
 <213> Mus musculus

<400> 16
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys
 1 5 10 15
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu
 20 25 30
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser
 35 40 45
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu
 50 55 60
 Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr
 65 70 75 80
 Ser Thr

<210> 17
 <211> 95
 <212> PRT
 <213> Mus musculus

<400> 17
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Gln Gln Glu Pro Arg Lys
 1 5 10 15
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu Arg Asp Gln Leu
 20 25 30
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser
 35 40 45
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu
 50 55 60
 Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr
 65 70 75 80

Thr Leu Lys Leu Ser Thr Arg Ser Pro Met Glu Glu Glu Glu Val
85 90 95

<210> 18
<211> 95
<212> PRT
<213> Mus musculus

<400> 18
Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys
1 5 10 15
Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu
20 25 30
Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser
35 40 45
Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu
50 55 60
Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr
65 70 75 80
Thr Leu Lys Leu Ser Thr Arg Ser Pro Met Glu Glu Glu Gly Arg
85 90 95

<210> 19
<211> 82
<212> PRT
<213> Mus musculus

<400> 19
Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys
1 5 10 15
Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu
20 25 30
Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser
35 40 45
Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu
50 55 60
Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr
65 70 75 80
Thr Leu

<210> 20
<211> 82
<212> PRT
<213> Mus musculus

<400> 20
Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys
1 5 10 15
Glu Glu Glu Thr Leu Leu Arg Leu Arg Ala Ala Leu His Asp Gln Leu
20 25 30
Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser
35 40 45
Arg Gly Arg Thr Glu Thr Pro Ser Ser Gln Pro Ala Pro Glu Gln Leu
50 55 60
Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr
65 70 75 80
Thr Leu

<210> 21
<211> 81
<212> PRT
<213> Mus musculus

<400> 21
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys
 1 5 10 15
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu
 20 25 30
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser
 35 40 45
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu
 50 55 60
 Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr
 65 70 75 80
 Thr

<210> 22
 <211> 82
 <212> PRT
 <213> Mus musculus

<400> 22
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys
 1 5 10 15
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu
 20 25 30
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser
 35 40 45
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu
 50 55 60
 Cys Asp Met Ser Leu His Val Asp Asn Lys Val Thr Ile Asn Gln Thr
 65 70 75 80
 Thr Pro

<210> 23
 <211> 82
 <212> PRT
 <213> Mus musculus

<400> 23
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys
 1 5 10 15
 Glu Glu Glu Thr Leu Leu Arg Leu Asn Ala Ala Leu His Asp Gln Leu
 20 25 30
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser
 35 40 45
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu
 50 55 60
 Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr
 65 70 75 80
 Thr Leu

<210> 24
 <211> 82
 <212> PRT
 <213> Mus musculus

<400> 24
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Asn
 1 5 10 15
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu
 20 25 30
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser

<210> 28
 <211> 63
 <212> PRT
 <213> Mus musculus

<400> 28
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys
 1 5 10 15
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu
 20 25 30
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser
 35 40 45
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Ser
 50 55 60

<210> 29
 <211> 63
 <212> PRT
 <213> Mus musculus

<400> 29
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys
 1 5 10 15
 Glu Glu Glu Thr Leu Leu Arg Leu Asn Ala Ala Leu His Asp Gln Leu
 20 25 30
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser
 35 40 45
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Ser
 50 55 60

<210> 30
 <211> 60
 <212> PRT
 <213> Mus musculus

<400> 30
 Gln Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys
 1 5 10 15
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu
 20 25 30
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser
 35 40 45
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala
 50 55 60

<210> 31
 <211> 81
 <212> PRT
 <213> Mus musculus

<400> 31
 Arg Glu Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu
 1 5 10 15
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn
 20 25 30
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
 35 40 45
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
 50 55 60
 Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr His
 65 70 75 80
 Ser

<210> 32
 <211> 48
 <212> PRT
 <213> Mus musculus

<400> 32
 Phe Leu Val Asn Glu Gly Trp Ser Gln Leu Ala Ala Met His Cys Val
 1 5 10 15
 Met Leu Pro Asp Leu Leu Gly Leu Glu Arg Phe Arg Pro Pro Leu Leu
 20 25 30
 Glu Met Leu Ala Arg Arg Trp Gln Asp Arg Cys Leu Glu Val Arg Glu
 35 40 45

<210> 33
 <211> 50
 <212> PRT
 <213> Mus musculus

<400> 33
 Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu
 1 5 10 15
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn
 20 25 30
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
 35 40 45
 Gly Arg
 50

<210> 34
 <211> 81
 <212> PRT
 <213> Mus musculus

<400> 34
 Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu
 1 5 10 15
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn
 20 25 30
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
 35 40 45
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
 50 55 60
 Asp Met Ser Leu His Val Asp His Glu Val Thr Ile Asn Gln Thr Thr
 65 70 75 80
 Leu

<210> 35
 <211> 81
 <212> PRT
 <213> Mus musculus

<400> 35
 Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu
 1 5 10 15
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn
 20 25 30
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
 35 40 45
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
 50 55 60
 Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr
 65 70 75 80
 10

Pro

<210> 36
<211> 81
<212> PRT
<213> Mus musculus

<400> 36
Arg Lys Trp Lys Gly Met Leu Ser Gln Leu Gln Glu Leu Arg Lys Glu
1 5 10 15
Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn
20 25 30
Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
35 40 45
Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
50 55 60
Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr
65 70 75 80
Pro

<210> 37
<211> 81
<212> PRT
<213> Mus musculus

<400> 37
Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Met Glu
1 5 10 15
Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn
20 25 30
Leu Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
35 40 45
Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
50 55 60
Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Leu Thr Thr
65 70 75 80
Pro

<210> 38
<211> 81
<212> PRT
<213> Mus musculus

<400> 38
Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu
1 5 10 15
Glu Glu Thr Leu Leu Arg Leu Asn Ala Ala Leu His Asp Gln Leu Asn
20 25 30
Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
35 40 45
Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
50 55 60
Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr
65 70 75 80
Pro

<210> 39
<211> 81
<212> PRT
<213> Mus musculus

<400> 39
 Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu
 1 5 10 15
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Leu His Asp Gln Leu Asn
 20 25 30
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
 35 40 45
 Gly Arg Ala Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
 50 55 60
 Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr
 65 70 75 80
 Pro

<210> 40
 <211> 81
 <212> PRT
 <213> Mus musculus

<400> 40
 Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu
 1 5 10 15
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn
 20 25 30
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
 35 40 45
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Thr Pro Glu Gln Leu Cys
 50 55 60
 Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr
 65 70 75 80
 Thr

<210> 41
 <211> 81
 <212> PRT
 <213> Mus musculus

<400> 41
 Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu
 1 5 10 15
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn
 20 25 30
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
 35 40 45
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
 50 55 60
 Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Lys
 65 70 75 80
 Leu

<210> 42
 <211> 81
 <212> PRT
 <213> Mus musculus

<400> 42
 Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu
 1 5 10 15
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn
 20 25 30
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
 12

Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
 50 35 40 45
 Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr
 65 70 75 80
 Gln

<210> 43
 <211> 81
 <212> PRT
 <213> Mus musculus

<400> 43
 Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu
 1 5 10 15
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Leu His Asp Gln Leu Asn
 20 25 30
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
 35 40 45
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
 50 55 60
 Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Arg
 65 70 75 80
 Pro

<210> 44
 <211> 81
 <212> PRT
 <213> Mus musculus

<400> 44
 Arg Lys Trp Glu Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu
 1 5 10 15
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn
 20 25 30
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
 35 40 45
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
 50 55 60
 Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Arg
 65 70 75 80
 Pro

<210> 45
 <211> 81
 <212> PRT
 <213> Mus musculus

<400> 45
 Arg Lys Trp Lys Gly Thr Leu Ser Arg Leu Gln Asp Leu Arg Lys Glu
 1 5 10 15
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn
 20 25 30
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
 35 40 45
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
 50 55 60
 Asp Val Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Arg
 65 70 75 80
 Pro

<210> 46
 <211> 49
 <212> PRT
 <213> Mus musculus

<400> 46
 Lys Trp Lys Gly Met Leu Ser Arg Leu Lys Glu Leu Arg Lys Glu Glu
 1 5 10 15
 Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg
 20 25 30
 Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly
 35 40 45
 Arg

<210> 47
 <211> 79
 <212> PRT
 <213> Mus musculus

<400> 47
 Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu
 1 5 10 15
 Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu
 20 25 30
 Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg
 35 40 45
 Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met
 50 55 60
 Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu
 65 70 75

<210> 48
 <211> 79
 <212> PRT
 <213> Mus musculus

<400> 48
 Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu
 1 5 10 15
 Ala Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu
 20 25 30
 Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg
 35 40 45
 Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met
 50 55 60
 Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu
 65 70 75

<210> 49
 <211> 47
 <212> PRT
 <213> Mus musculus

<400> 49
 Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr
 1 5 10 15
 Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys
 20 25 30
 Val Lys Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg
 35 40 45

<210> 50

<211> 90
 <212> PRT
 <213> Mus musculus

<400> 50
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu
 1 5 10 15
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val
 20 25 30
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu
 35 40 45
 Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu
 50 55 60
 His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu Lys Leu Ser
 65 70 75 80
 Thr Arg Ser Pro Met Glu Glu Glu Glu Gly
 85 90

<210> 51
 <211> 77
 <212> PRT
 <213> Mus musculus

<400> 51
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu
 1 5 10 15
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val
 20 25 30
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu
 35 40 45
 Ala Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Thr Ser Leu
 50 55 60
 His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu
 65 70 75

<210> 52
 <211> 77
 <212> PRT
 <213> Mus musculus

<400> 52
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu
 1 5 10 15
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val
 20 25 30
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu
 35 40 45
 Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu
 50 55 60
 His Val Asp Asn Glu Val Thr Ile Asn Gln Thr His Ser
 65 70 75

<210> 53
 <211> 77
 <212> PRT
 <213> Mus musculus

<400> 53
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu
 1 5 10 15
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val
 20 25 30
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu
 35 40 45

Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu
50 55 60
His Val Asp Asn Glu Val Ala Ile Asn Gln Thr Thr Pro
65 70 75

<210> 54
<211> 77
<212> PRT
<213> Mus musculus

<400> 54
Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu
1 5 10 15
Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val
20 25 30
Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu
35 40 45
Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu
50 55 60
His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Pro
65 70 75

<210> 55
<211> 76
<212> PRT
<213> Mus musculus

<400> 55
Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu
1 5 10 15
Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val
20 25 30
Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Glu Arg Thr Glu
35 40 45
Thr Leu Ser Ser Arg Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu
50 55 60
His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr
65 70 75

<210> 56
<211> 76
<212> PRT
<213> Mus musculus

<400> 56
Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu
1 5 10 15
Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val
20 25 30
Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu
35 40 45
Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu
50 55 60
His Val Asp Asn Glu Val Thr Ile Asp Gln Gly Ala
65 70 75

<210> 57
<211> 74
<212> PRT
<213> Mus musculus

<400> 57
Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu
1 5 10 15

Leu Arg Leu Lys Ala Ala Leu His Asn Gln Leu Asn Arg Leu Lys Val
 20 25 30
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu
 35 40 45
 Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu
 50 55 60
 His Val Asp Asn Glu Val Thr Ile Asn Gln
 65 70

<210> 58
 <211> 69
 <212> PRT
 <213> Mus musculus

<400> 58
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu
 1 5 10 15
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val
 20 25 30
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu
 35 40 45
 Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu
 50 55 60
 His Val Asp His Glu
 65

<210> 59
 <211> 69
 <212> PRT
 <213> Mus musculus

<400> 59
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu
 1 5 10 15
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val
 20 25 30
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu
 35 40 45
 Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu
 50 55 60
 His Val Asp Ile Glu
 65

<210> 60
 <211> 67
 <212> PRT
 <213> Mus musculus

<400> 60
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu
 1 5 10 15
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val
 20 25 30
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu
 35 40 45
 Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Thr Ser Leu
 50 55 60
 His Val Thr
 65

<210> 61
 <211> 46
 <212> PRT
 <213> Mus musculus

<400> 61
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu
 1 5 10 15
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val
 20 25 30
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg
 35 40 45

<210> 62
 <211> 46
 <212> PRT
 <213> Mus musculus

<400> 62
 Arg Met Leu Ser Gln Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu
 1 5 10 15
 Leu Arg Leu Lys Ala Thr Leu His Asp Gln Leu Asn Arg Leu Lys Val
 20 25 30
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Lys
 35 40 45

<210> 63
 <211> 75
 <212> PRT
 <213> Mus musculus

<400> 63
 Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu Arg
 1 5 10 15
 Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu
 20 25 30
 Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu
 35 40 45
 Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu His Val
 50 55 60
 Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu
 65 70 75

<210> 64
 <211> 69
 <212> PRT
 <213> Mus musculus

<400> 64
 Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu Arg
 1 5 10 15
 Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu
 20 25 30
 Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu
 35 40 45
 Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu His Val
 50 55 60
 Asp Asn Glu Ala Thr
 65

<210> 65
 <211> 66
 <212> PRT
 <213> Mus musculus

<400> 65
 Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu Arg Leu Lys
 1 5 10 15

Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala
 20 25 30
 Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser
 35 40 45
 Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu His Val Asp Asn
 50 55 60
 Glu Val
 65

<210> 66
 <211> 61
 <212> PRT
 <213> Mus musculus

<400> 66
 Arg Leu Arg Glu Leu Arg Lys Glu Glu Lys Thr Leu Leu Arg Leu Lys
 1 5 10 15
 Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala
 20 25 30
 Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser
 35 40 45
 Gln Pro Ala Pro Glu Gln Cys Pro Tyr Met Leu Thr Thr
 50 55 60

<210> 67
 <211> 61
 <212> PRT
 <213> Mus musculus

<400> 67
 Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu Arg Leu Lys
 1 5 10 15
 Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala
 20 25 30
 Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser
 35 40 45
 Gln Pro Ala Pro Gly Gln Cys Pro Tyr Met Leu Thr Thr
 50 55 60

<210> 68
 <211> 61
 <212> PRT
 <213> Mus musculus

<400> 68
 Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Gln Leu Arg Leu Lys
 1 5 10 15
 Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala
 20 25 30
 Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser
 35 40 45
 Gln Pro Ala Pro Glu Gln Cys Pro Tyr Met Leu Thr Thr
 50 55 60

<210> 69
 <211> 40
 <212> PRT
 <213> Mus musculus

<400> 69
 Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu Arg Leu Lys
 1 5 10 15
 Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala
 20 25 30

Leu Gln Ser Met Ile Asn Ser Arg
 35 40

<210> 70
 <211> 956
 <212> PRT
 <213> Mus musculus

<400> 70
 Met Ala Asp Pro Ala Glu Cys Ser Ile Lys Val Met Cys Arg Phe Arg
 1 5 10 15
 Pro Leu Asn Glu Ala Glu Ile Leu Arg Gly Asp Lys Phe Ile Pro Lys
 20 25 30
 Phe Lys Gly Glu Glu Thr Val Val Ile Gly Gln Gly Lys Pro Tyr Val
 35 40 45
 Phe Asp Arg Val Leu Pro Pro Asn Thr Thr Gln Glu Glu Val Tyr Asn
 50 55 60
 Ala Cys Ala Lys Gln Ile Val Lys Asp Val Leu Glu Gly Tyr Asn Gly
 65 70 75 80
 Thr Ile Phe Ala Tyr Gly Gln Thr Ser Ser Gly Lys Thr His Thr Met
 85 90 95
 Glu Gly Lys Leu His Asp Pro Gln Leu Met Gly Ile Ile Pro Arg Ile
 100 105 110
 Ala His Asp Ile Phe Asp His Ile Tyr Ser Met Asp Glu Asn Leu Glu
 115 120 125
 Phe His Ile Lys Val Ser Tyr Phe Glu Ile Tyr Leu Asp Lys Ile Arg
 130 135 140
 Asp Leu Leu Asp Val Ser Lys Thr Asn Leu Ala Val His Glu Asp Lys
 145 150 155 160
 Asn Arg Val Pro Tyr Val Lys Gly Cys Thr Glu Arg Phe Val Ser Ser
 165 170 175
 Pro Glu Glu Val Met Asp Val Ile Asp Glu Gly Lys Ala Asn Arg His
 180 185 190
 Val Ala Val Thr Asn Met Asn Glu His Ser Ser Arg Ser His Ser Ile
 195 200 205
 Phe Leu Ile Asn Ile Lys Gln Glu Asn Val Glu Thr Glu Lys Lys Leu
 210 215 220
 Ser Gly Lys Leu Tyr Leu Val Asp Leu Ala Gly Ser Glu Lys Val Ser
 225 230 235 240
 Lys Thr Gly Ala Glu Gly Ala Val Leu Asp Glu Ala Lys Asn Ile Asn
 245 250 255
 Lys Ser Leu Ser Ala Leu Gly Asn Val Ile Ser Ala Leu Ala Glu Gly
 260 265 270
 Thr Lys Thr His Val Pro Tyr Arg Asp Ser Lys Met Thr Arg Ile Leu
 275 280 285
 Gln Asp Ser Leu Gly Gly Asn Cys Arg Thr Thr Ile Val Ile Cys Cys
 290 295 300
 Ser Pro Ser Val Phe Asn Glu Ala Glu Thr Lys Ser Thr Leu Met Phe
 305 310 315 320
 Gly Gln Arg Ala Lys Thr Ile Lys Asn Thr Val Ser Val Asn Leu Glu
 325 330 335
 Leu Thr Ala Glu Glu Trp Lys Lys Lys Tyr Glu Lys Glu Lys Glu Lys
 340 345 350
 Asn Lys Ala Leu Lys Ser Val Leu Gln His Leu Glu Met Glu Leu Asn
 355 360 365
 Arg Trp Arg Asn Gly Glu Ala Val Pro Glu Asp Glu Gln Ile Ser Ala
 370 375 380
 Lys Asp His Lys Ser Leu Glu Pro Cys Asp Asn Thr Pro Ile Ile Asp
 385 390 395 400
 Asn Ile Thr Pro Val Val Asp Gly Ile Ser Ala Glu Lys Glu Lys Tyr
 405 410 415
 Asp Glu Glu Ile Thr Ser Leu Tyr Arg Gln Leu Asp Asp Lys Asp Asp
 420 425 430
 Glu Ile Asn Gln Gln Ser Gln Leu Ala Glu Lys Leu Lys Gln Gln Met
 20

945

950

955

<210> 71
 <211> 61
 <212> PRT
 <213> Mus musculus

<400> 71
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Phe Leu Glu Asn Asn Leu
 1 5 10 15
 Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala Asp
 20 25 30
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala
 35 40 45
 Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala
 50 55 60

<210> 72
 <211> 61
 <212> PRT
 <213> Mus musculus

<400> 72
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Phe Leu Glu Asn Asn Leu
 1 5 10 15
 Glu Gln Leu Thr Lys Val His Lys Gln Pro Val Arg Asp Asn Ala Asp
 20 25 30
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala
 35 40 45
 Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala
 50 55 60

<210> 73
 <211> 61
 <212> PRT
 <213> Mus musculus

<400> 73
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Phe Leu Glu Asn Asn Leu
 1 5 10 15
 Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala Asp
 20 25 30
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala
 35 40 45
 Lys Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Asp Ala
 50 55 60

<210> 74
 <211> 64
 <212> PRT
 <213> Mus musculus

<400> 74
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Phe Leu Glu Asn Asn Leu
 1 5 10 15
 Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala Asp
 20 25 30
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala
 35 40 45
 Lys Arg Val Lys Ala Leu Val Ser Ala Leu Lys Glu Ala Lys Glu Arg
 50 55 60

<210> 75
 <211> 64

<212> PRT
 <213> Mus musculus

<400> 75
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Phe Leu Glu Asn Asn Leu
 1 5 10 15
 Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala Asp
 20 25 30
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala
 35 40 45
 Glu Arg Val Met Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu Arg
 50 55 60

<210> 76
 <211> 64
 <212> PRT
 <213> Mus musculus

<400> 76
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Leu Leu Glu Asn Asn Leu
 1 5 10 15
 Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala Asp
 20 25 30
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala
 35 40 45
 Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu Arg
 50 55 60

<210> 77
 <211> 64
 <212> PRT
 <213> Mus musculus

<400> 77
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Phe Leu Glu Asn His Leu
 1 5 10 15
 Glu Gln Leu Thr Lys Val His Lys Leu Leu Val Arg Asp Asn Ala Asp
 20 25 30
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala
 35 40 45
 Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu Arg
 50 55 60

<210> 78
 <211> 54
 <212> PRT
 <213> Mus musculus

<400> 78
 Leu Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala
 1 5 10 15
 Asp Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr
 20 25 30
 Ala Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu
 35 40 45
 Asn Ala Met Arg Asp Arg
 50

<210> 79
 <211> 54
 <212> PRT
 <213> Mus musculus

<400> 79

Leu Glu Gln Leu Thr Arg Val His Lys Gln Leu Val Arg Asp Asn Ala
 1 5 10 15
 Asp Leu Arg Tyr Glu Leu His Lys Leu Glu Lys Arg Leu Arg Ala Thr
 20 25 30
 Ala Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu
 35 40 45
 Asn Ala Met Arg Asp Arg
 50

<210> 80
 <211> 54
 <212> PRT
 <213> Mus musculus

<400> 80
 Leu Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala
 1 5 10 15
 Asp Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr
 20 25 30
 Ala Lys Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu
 35 40 45
 Asn Ala Met Arg Asp Arg
 50

<210> 81
 <211> 54
 <212> PRT
 <213> Mus musculus

<400> 81
 Leu Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Gln Asp Asn Ala
 1 5 10 15
 Asp Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr
 20 25 30
 Ala Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu
 35 40 45
 Asn Ala Met Arg Asp Arg
 50

<210> 82
 <211> 61
 <212> PRT
 <213> Mus musculus

<400> 82
 Ser Phe Leu Asp Asn Asn Leu Glu Gln Leu Thr Lys Val His Lys Gln
 1 5 10 15
 Leu Val Arg Asp Asn Ala Asp Leu Arg Cys Glu Leu Pro Arg Leu Glu
 20 25 30
 Lys Met Leu Arg Ala Thr Ala Glu Arg Val Lys Ala Leu Glu Ser Ala
 35 40 45
 Leu Lys Glu Ala Lys Glu Asn Ala Met Ser Asp Ala Lys
 50 55 60

<210> 83
 <211> 54
 <212> PRT
 <213> Mus musculus

<400> 83
 Leu Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala
 1 5 10 15
 Asp Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr
 24

Ala Lys Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu
 20 25 30
 35 40 45
 Asn Ala Met Arg Asp Arg
 50

<210> 84
 <211> 49
 <212> PRT
 <213> Mus musculus

<400> 84
 Ala Lys Thr Ile Lys Asn Thr Val Ser Val Asn Leu Glu Leu Thr Ala
 1 5 10 15
 Glu Glu Trp Lys Lys Glu Tyr Glu Lys Glu Lys Lys Asn Lys Ala
 20 25 30
 Leu Lys Ser Val Leu Gln His Leu Glu Met Glu Leu Asn Arg Trp Arg
 35 40 45
 Glu

<210> 85
 <211> 51
 <212> PRT
 <213> Mus musculus

<400> 85
 Gln Arg Ala Lys Thr Ile Asn Asn Thr Val Ser Val Asn Leu Glu Leu
 1 5 10 15
 Thr Ala Glu Glu Trp Lys Lys Arg Tyr Glu Lys Glu Lys Glu Lys Asn
 20 25 30
 Lys Ala Leu Lys Ser Val Leu Gln His Leu Glu Met Glu Leu Asn Arg
 35 40 45
 Trp Arg Arg
 50

<210> 86
 <211> 48
 <212> PRT
 <213> Mus musculus

<400> 86
 Gln Arg Ala Lys Ala Ile Lys Asn Thr Val Ser Val Asn Leu Glu Leu
 1 5 10 15
 Thr Ala Glu Glu Trp Lys Lys Lys Tyr Glu Lys Glu Lys Glu Lys Asn
 20 25 30
 Lys Ala Leu Lys Asn Val Leu Gln His Leu Glu Met Glu Leu Asn Arg
 35 40 45

<210> 87
 <211> 70
 <212> PRT
 <213> Mus musculus

<400> 87
 Cys Cys Ser Pro Ser Val Phe Asn Glu Ala Glu Thr Lys Ser Thr Leu
 1 5 10 15
 Met Phe Gly Gln Arg Ala Lys Thr Ile Lys Asn Thr Val Ser Val Asn
 20 25 30
 Leu Glu Leu Thr Ala Glu Glu Trp Lys Lys Lys Tyr Glu Lys Glu Lys
 35 40 45
 Glu Lys Asn Lys Ala Leu Lys Ser Val Leu Gln His Leu Glu Met Glu
 50 55 60
 Leu Asn Arg Trp Arg Asn

65

70

<210> 88
 <211> 1027
 <212> PRT
 <213> Mus musculus

<400> 88

Met Ala Glu Thr Asn Asn Glu Cys Ser Ile Lys Val Leu Cys Arg Phe
 1 5 10 15
 Arg Pro Leu Asn Gln Ala Glu Ile Leu Arg Gly Asp Lys Phe Ile Pro
 20 25 30
 Ile Phe Gln Gly Asp Asp Ser Val Ile Ile Gly Gly Lys Pro Tyr Val
 35 40 45
 Phe Asp Arg Val Phe Pro Pro Asn Thr Thr Gln Glu Gln Val Tyr His
 50 55 60
 Ala Cys Ala Met Gln Ile Val Lys Asp Val Leu Ala Gly Tyr Asn Gly
 65 70 75 80
 Thr Ile Phe Ala Tyr Gly Gln Thr Ser Ser Gly Lys Thr His Thr Met
 85 90 95
 Glu Gly Lys Leu His Asp Pro Gln Leu Met Gly Ile Ile Pro Arg Ile
 100 105 110
 Ala Arg Asp Ile Phe Asn His Ile Tyr Ser Met Asp Glu Asn Leu Glu
 115 120 125
 Phe His Ile Lys Val Ser Tyr Phe Glu Ile Tyr Leu Asp Lys Ile Arg
 130 135 140
 Asp Leu Leu Asp Val Thr Lys Thr Asn Leu Ser Val His Glu Asp Lys
 145 150 155 160
 Asn Arg Val Pro Phe Val Lys Gly Cys Thr Glu Arg Phe Val Ser Ser
 165 170 175
 Pro Glu Glu Ile Leu Asp Val Ile Asp Glu Gly Lys Ser Asn Arg His
 180 185 190
 Val Ala Val Thr Asn Met Asn Glu His Ser Ser Arg Ser His Ser Ile
 195 200 205
 Phe Leu Ile Asn Ile Lys Gln Glu Asn Val Glu Thr Glu Gln Lys Leu
 210 215 220
 Ser Gly Lys Leu Tyr Leu Val Asp Leu Ala Gly Ser Glu Lys Val Ser
 225 230 235 240
 Lys Thr Gly Ala Glu Gly Ala Val Leu Asp Glu Ala Lys Asn Ile Asn
 245 250 255
 Lys Ser Leu Ser Ala Leu Gly Asn Val Ile Ser Ala Leu Ala Glu Gly
 260 265 270
 Thr Lys Ser Tyr Val Pro Tyr Arg Asp Thr Lys Met Thr Arg Ile Leu
 275 280 285
 Gln Asp Ser Leu Gly Gly Asn Cys Arg Thr Thr Met Phe Ile Cys Cys
 290 295 300
 Ser Pro Ser Ser Tyr Asn Asp Ala Glu Thr Lys Ser Thr Leu Met Phe
 305 310 315 320
 Gly Gln Arg Ala Lys Thr Ile Lys Asn Thr Ala Ser Val Asn Leu Glu
 325 330 335
 Leu Thr Ala Glu Gln Trp Lys Lys Lys Tyr Glu Lys Glu Lys Glu Lys
 340 345 350
 Thr Lys Ala Gln Lys Glu Thr Ile Ala Asn Val Glu Ala Glu Leu Ser
 355 360 365
 Arg Trp Arg Asn Gly Glu Asn Val Pro Glu Thr Glu Arg Leu Ala Gly
 370 375 380
 Glu Asp Ser Ala Leu Gly Ala Glu Leu Cys Glu Glu Thr Pro Val Asn
 385 390 395 400
 Asp Asn Ser Ser Ile Val Val Arg Ile Ala Pro Glu Glu Arg Gln Lys
 405 410 415
 Tyr Glu Glu Glu Ile Arg Arg Leu Tyr Lys Gln Leu Asp Asp Lys Asp
 420 425 430
 Asp Glu Ile Asn Gln Gln Ser Gln Leu Ile Glu Lys Leu Lys Gln Gln
 435 440 445

Met	Leu	Asp	Gln	Glu	Glu	Leu	Leu	Val	Ser	Thr	Arg	Gly	Asp	Asn	Glu
	450					455					460				
Lys	Val	Gln	Arg	Glu	Leu	Ser	His	Leu	Gln	Ser	Glu	Asn	Asp	Ala	Ala
465					470					475					480
Lys	Asp	Glu	Val	Lys	Glu	Val	Leu	Gln	Ala	Leu	Glu	Glu	Leu	Ala	Val
				485					490					495	
Asn	Tyr	Asp	Gln	Lys	Ser	Gln	Glu	Val	Glu	Glu	Lys	Ser	Gln	Gln	Asn
			500					505					510		
Gln	Leu	Leu	Val	Asp	Glu	Leu	Ser	Gln	Lys	Val	Ala	Thr	Met	Leu	Ser
		515					520					525			
Leu	Glu	Ser	Glu	Leu	Gln	Arg	Leu	Gln	Glu	Val	Ser	Gly	His	Gln	Arg
	530					535					540				
Lys	Arg	Ile	Ala	Glu	Val	Leu	Asn	Gly	Leu	Met	Arg	Asp	Leu	Ser	Glu
545					550					555					560
Phe	Ser	Val	Ile	Val	Gly	Asn	Gly	Glu	Ile	Lys	Leu	Pro	Val	Glu	Ile
				565					570					575	
Ser	Gly	Ala	Ile	Glu	Glu	Glu	Phe	Thr	Val	Ala	Arg	Leu	Tyr	Ile	Ser
			580					585					590		
Lys	Ile	Lys	Ser	Glu	Val	Lys	Ser	Val	Val	Lys	Arg	Cys	Arg	Gln	Leu
		595					600					605			
Glu	Asn	Leu	Gln	Val	Glu	Cys	His	Arg	Lys	Met	Glu	Val	Thr	Gly	Arg
	610					615					620				
Glu	Leu	Ser	Ser	Cys	Gln	Leu	Leu	Ile	Ser	Gln	His	Glu	Ala	Lys	Ile
625					630					635					640
Arg	Ser	Leu	Thr	Glu	Tyr	Met	Gln	Thr	Val	Glu	Leu	Lys	Lys	Arg	His
				645					650					655	
Leu	Glu	Glu	Ser	Tyr	Asp	Ser	Leu	Ser	Asp	Glu	Leu	Ala	Arg	Leu	Gln
			660					665					670		
Ala	His	Glu	Thr	Val	His	Glu	Val	Ala	Leu	Lys	Asp	Lys	Glu	Pro	Asp
		675					680					685			
Thr	Gln	Asp	Ala	Glu	Glu	Val	Lys	Lys	Ala	Leu	Glu	Leu	Gln	Met	Glu
	690					695					700				
Asn	His	Arg	Glu	Ala	His	His	Arg	Gln	Leu	Ala	Arg	Leu	Arg	Asp	Glu
705					710					715					720
Ile	Asn	Glu	Lys	Gln	Lys	Thr	Ile	Asp	Glu	Leu	Lys	Asp	Leu	Asn	Gln
				725					730					735	
Lys	Leu	Gln	Leu	Glu	Leu	Glu	Lys	Leu	Gln	Ala	Asp	Tyr	Glu	Arg	Leu
			740					745					750		
Lys	Asn	Glu	Glu	Asn	Glu	Lys	Ser	Ala	Lys	Leu	Gln	Glu	Leu	Thr	Phe
		755					760					765			
Leu	Tyr	Glu	Arg	His	Glu	Gln	Ser	Lys	Gln	Asp	Leu	Lys	Gly	Leu	Glu
	770					775				780					
Glu	Thr	Val	Ala	Arg	Glu	Leu	Gln	Thr	Leu	His	Asn	Leu	Arg	Lys	Leu
785					790					795					800
Phe	Val	Gln	Asp	Val	Thr	Thr	Arg	Val	Lys	Lys	Ser	Ala	Glu	Met	Glu
				805					810					815	
Pro	Glu	Asp	Ser	Gly	Gly	Ile	His	Ser	Gln	Lys	Gln	Lys	Ile	Ser	Phe
			820					825					830		
Leu	Glu	Asn	Asn	Leu	Glu	Gln	Leu	Thr	Lys	Val	His	Lys	Gln	Leu	Val
		835					840					845			
Arg	Asp	Asn	Ala	Asp	Leu	Arg	Cys	Glu	Leu	Pro	Lys	Leu	Glu	Lys	Arg
	850					855					860				
Leu	Arg	Ala	Thr	Ala	Glu	Arg	Val	Lys	Ala	Leu	Glu	Gly	Ala	Leu	Lys
865					870					875					880
Glu	Ala	Lys	Glu	Gly	Ala	Met	Lys	Asp	Lys	Arg	Arg	Tyr	Gln	Gln	Glu
				885					890					895	
Val	Asp	Arg	Ile	Lys	Glu	Ala	Val	Arg	Tyr	Lys	Ser	Ser	Gly	Lys	Arg
			900					905					910		
Gly	His	Ser	Ala	Gln	Ile	Ala	Lys	Pro	Val	Arg	Pro	Gly	His	Tyr	Pro
		915					920					925			
Ala	Ser	Ser	Pro	Thr	Asn	Pro	Tyr	Gly	Thr	Arg	Ser	Pro	Glu	Cys	Ile
	930					935					940				
Ser	Tyr	Thr	Asn	Asn	Leu	Phe	Gln	Asn	Tyr	Gln	Asn	Leu	His	Leu	Gln

945 950 955 960
Ala Ala Pro Ser Ser Thr Ser Asp Met Tyr Phe Ala Ser Ser Gly Arg
 965 970 975
Thr Ser Val Ala Pro Leu Ala Ser Tyr Gln Lys Ala Asn Met Asp Asn
 980 985 990
Gly Asn Ala Thr Asp Ile Asn Asp Asn Arg Ser Asp Leu Pro Cys Gly
 995 1000 1005
Tyr Glu Ala Glu Asp Gln Ala Lys Leu Phe Pro Leu His Gln Glu
 1010 1015 1020
Thr Ala Ala Ser
 1025

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<210> 89
<211> 52
<212> PRT
<213> Mus musculus
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<400> 89
Ile Ser Phe Leu Lys Asn Asn Leu Glu Arg Leu Thr Lys Val His Lys
1 5 10 15
Gln Leu Val Arg Asp Asn Ala Asp Leu Arg Cys Glu Leu Pro Lys Leu
20 25 30
Glu Lys Arg Leu Arg Ala Thr Ala Glu Arg Val Lys Ala Leu Glu Gly
35 40 45
Ala Leu Lys Gly
50

<210>	90
<211>	59
<212>	PRT
<213>	Mus musculus

<400> 90
Gln Lys Gln Lys Ile Ser Phe Leu Glu Asp Asn Leu Glu Gln Leu Thr
1 5 10 15
Lys Val His Lys Gln Leu Val Arg Asp Asn Ala Asp Leu Arg Cys Glu
20 25 30
Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala Glu Arg Val Lys
35 40 45
Ala Leu Glu Gly Ala Leu Lys Glu Gly Lys Glu
50 55

<210>	91
<211>	62
<212>	PRT
<213>	Mus musculus

<400> 91
 1 His Ser Gln Lys Gln Lys Ile Ser Phe Leu Glu Asn Asn Leu Glu Gln
 5 10 15
 20 Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala Asp Leu Arg
 25 30
 35 Cys Glu Leu Pro Lys Leu Glu Lys Gln Leu Arg Ala Thr Ala Glu Arg
 40 45
 50 Val Lys Ala Leu Glu Gly Thr Leu Lys Glu Ala Lys Glu Gly
 55 60

<210>	92
<211>	62
<212>	PRT
<213>	Mus musculus

<400> 92
Arg Ile Pro Ser Phe Leu Glu Asn Asn Leu Glu Gln Leu Thr Lys Val
28

1 5 10 15
 His Lys Gln Leu Val Arg Asp Asn Ala Asp Leu Arg Cys Glu Leu Pro
 20 25 30
 Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala Glu Arg Val Lys Ala Leu
 35 40 45
 Glu Gly Ala Leu Lys Glu Ala Lys Glu Gly Ala Met Lys Asp
 50 55 60

<210> 93
 <211> 59
 <212> PRT
 <213> Mus musculus

<400> 93
 Ser Phe Leu Glu Asn Asn Leu Glu Gln Leu Thr Lys Val His Lys Gln
 1 5 10 15
 Leu Val Arg Asp Asn Ala Asp Leu Arg Cys Glu Leu Pro Lys Leu Glu
 20 25 30
 Lys Arg Leu Arg Ala Thr Ala Glu Arg Val Lys Ala Leu Glu Gly Ala
 35 40 45
 Leu Lys Glu Ala Lys Glu Gly Ala Met Lys Asp
 50 55

<210> 94
 <211> 12
 <212> PRT
 <213> Mus musculus

<400> 94
 Gln Lys Tyr Glu Glu Glu Ile Arg Arg Leu Tyr Lys
 1 5 10

<210> 95
 <211> 281
 <212> PRT
 <213> Mus musculus

<400> 95
 Met Ala Thr Asn Phe Leu Ala His Glu Lys Ile Trp Phe Asp Lys Phe
 1 5 10 15
 Lys Tyr Asp Asp Ala Glu Arg Arg Phe Tyr Glu Gln Met Asn Gly Pro
 20 25 30
 Val Thr Ser Gly Ser Arg Gln Glu Asn Gly Ala Ser Val Ile Leu Arg
 35 40 45
 Asp Ile Ala Arg Ala Arg Glu Asn Ile Gln Lys Ser Leu Ala Gly Ser
 50 55 60
 Ser Gly Pro Gly Ala Ser Ser Gly Pro Gly Gly Asp His Ser Glu Leu
 65 70 75 80
 Ile Val Arg Ile Thr Ser Leu Glu Val Glu Asn Gln Asn Leu Arg Gly
 85 90 95
 Val Val Gln Asp Leu Gln Gln Ala Ile Ser Lys Leu Glu Ala Arg Leu
 100 105 110
 Ser Ser Leu Glu Lys Ser Ser Pro Thr Pro Arg Ala Thr Ala Pro Gln
 115 120 125
 Thr Gln His Val Ser Pro Met Arg Gln Val Glu Pro Pro Thr Lys Lys
 130 135 140
 Gly Ala Thr Pro Ala Glu Asp Asp Glu Asp Lys Asp Ile Asp Leu Phe
 145 150 155 160
 Gly Ser Asp Glu Glu Glu Glu Asp Lys Glu Ala Ala Arg Leu Arg Glu
 165 170 175
 Glu Arg Leu Arg Gln Tyr Ala Glu Lys Lys Ala Lys Lys Pro Thr Leu
 180 185 190
 Val Ala Lys Ser Ser Ile Leu Leu Asp Val Lys Pro Trp Asp Asp Glu
 195 200 205

Thr Asp Met Ala Gln Leu Glu Thr Cys Val Arg Ser Ile Gln Leu Asp
 210 215 220
 Gly Leu Val Trp Gly Ala Ser Lys Leu Val Pro Val Gly Tyr Gly Ile
 225 230 235 240
 Arg Lys Leu Gln Ile Gln Cys Val Val Glu Asp Asp Lys Val Gly Thr
 245 250 255
 Asp Leu Leu Glu Glu Glu Ile Thr Lys Phe Glu Glu His Val Gln Ser
 260 265 270
 Val Asp Ile Ala Ala Phe Asp Lys Ile
 275 280

<210> 96
 <211> 73
 <212> PRT
 <213> Mus musculus

<400> 96
 Glu Leu Ile Val Arg Ile Thr Ser Leu Glu Val Glu Asn Gln Asn Leu
 1 5 10 15
 Arg Gly Val Val Gln Asp Leu Gln Gln Ala Ile Ser Lys Leu Glu Ala
 20 25 30
 Arg Leu Ser Ser Leu Glu Lys Ser Pro Thr Pro Arg Ala Thr Ala
 35 40 45
 Pro Gln Thr Gln His Val Ser Pro Met Arg Gln Val Glu Pro Pro Thr
 50 55 60
 Lys Lys Gly Ala Thr Pro Ala Glu Val
 65 70

<210> 97
 <211> 66
 <212> PRT
 <213> Mus musculus

<400> 97
 Ile Thr Ser Leu Glu Val Glu Asn Gln Asn Leu Arg Gly Val Val Gln
 1 5 10 15
 Asp Leu Gln Gln Ala Ile Ser Lys Leu Glu Ala Arg Leu Ser Ser Leu
 20 25 30
 Glu Lys Ser Ser Pro Thr Pro Arg Ala Thr Thr Pro Gln Thr Gln His
 35 40 45
 Val Ser Pro Met Arg Gln Val Glu Pro Pro Thr Lys Lys Gly Ala Thr
 50 55 60
 Pro Ala
 65

<210> 98
 <211> 89
 <212> PRT
 <213> Mus musculus

<220>
 <221> UNSURE
 <222> (57)

<400> 98
 Asp His Ser Glu Leu Ile Val Arg Ile Thr Ser Leu Glu Val Glu Asn
 1 5 10 15
 Gln Asn Leu Arg Gly Val Val Gln Asp Leu Gln Gln Ala Ile Ser Lys
 20 25 30
 Leu Glu Ala Arg Leu Ser Ser Leu Glu Lys Ser Ser Pro Thr Pro Arg
 35 40 45
 Ala Thr Ala Pro Gln Thr Gln His Xaa Phe Pro Leu Arg Gln Val Glu
 50 55 60
 Pro Pro Thr Lys Lys Gly Ala Thr Pro Ala Glu Asp Asp Glu Asp Lys
 30

Val	Ala	Asp	Leu	Leu	Ala	Gln	Ile	Gln	Ala	Ser	His	Ile	Thr	Val	Glu
				245					250					255	
Arg	Lys	Asp	Tyr	Leu	Lys	Thr	Asp	Ile	Ser	Thr	Ala	Leu	Lys	Glu	Ile
			260					265					270		
Arg	Ser	Gln	Leu	Glu	Cys	His	Ser	Asp	Gln	Asn	Met	His	Gln	Ala	Glu
		275					280					285			
Glu	Trp	Phe	Lys	Cys	Arg	Tyr	Ala	Lys	Leu	Thr	Glu	Ala	Ala	Glu	Gln
	290					295					300				
Asn	Lys	Glu	Ala	Ile	Arg	Ser	Ala	Lys	Glu	Glu	Ile	Ala	Glu	Tyr	Arg
	305				310					315					320
Arg	Gln	Leu	Gln	Ser	Lys	Ser	Ile	Glu	Leu	Glu	Ser	Val	Arg	Gly	Thr
				325					330					335	
Lys	Glu	Ser	Leu	Glu	Arg	Gln	Leu	Ser	Asp	Ile	Glu	Glu	Arg	His	Asn
			340					345					350		
His	Asp	Leu	Ser	Ser	Tyr	Gln	Asp	Thr	Ile	Gln	Gln	Leu	Glu	Asn	Glu
		355					360					365			
Leu	Arg	Gly	Thr	Lys	Trp	Glu	Met	Ala	Arg	His	Leu	Arg	Glu	Tyr	Gln
	370					375					380				
Asp	Leu	Leu	Asn	Val	Lys	Met	Ala	Leu	Asp	Ile	Glu	Ile	Ala	Ala	Tyr
	385				390					395					400
Arg	Lys	Leu	Leu	Glu	Gly	Glu	Glu	Thr	Arg	Phe	Ser	Thr	Phe	Ser	Gly
				405					410					415	
Ser	Ile	Thr	Gly	Pro	Leu	Tyr	Thr	His	Arg	Gln	Pro	Ser	Val	Thr	Ile
			420					425					430		
Ser	Ser	Lys	Ile	Gln	Lys	Thr	Lys	Val	Glu	Ala	Pro	Lys	Leu	Lys	Val
		435					440					445			
Gln	His	Lys	Phe	Val	Glu	Glu	Ile	Ile	Glu	Glu	Thr	Lys	Val	Glu	Asp
	450					455					460				
Glu	Lys	Ser	Glu	Met	Glu	Glu	Thr	Leu	Thr	Ala	Ile	Ala	Glu	Glu	Leu
	465				470					475					480
Ala	Ala	Ser	Ala	Lys	Glu	Glu	Lys	Glu	Glu	Ala	Glu	Glu	Lys	Glu	Glu
				485					490					495	
Glu	Pro	Glu	Ala	Glu	Lys	Ser	Pro	Val	Lys	Ser	Pro	Glu	Ala	Lys	Glu
			500					505					510		
Glu	Glu	Glu	Glu	Gly	Glu	Lys	Glu	Glu	Glu	Glu	Glu	Gly	Gln	Glu	Glu
		515					520					525			
Glu	Glu	Glu	Glu	Asp	Glu	Gly	Val	Lys	Ser	Asp	Gln	Ala	Glu	Glu	Gly
	530					535					540				
Gly	Ser	Glu	Lys	Glu	Gly	Ser	Ser	Glu	Lys	Asp	Glu	Gly	Glu	Gln	Glu
	545				550					555					560
Glu	Glu	Glu	Gly	Glu	Thr	Glu	Ala	Glu	Gly	Glu	Gly	Glu	Glu	Ala	Glu
				565					570					575	
Ala	Lys	Glu	Glu	Lys	Lys	Ile	Glu	Gly	Lys	Val	Glu	Glu	Val	Ala	Val
			580					585					590		
Lys	Glu	Glu	Ile	Lys	Val	Glu	Lys	Pro	Glu	Lys	Ala	Lys	Ser	Pro	Met
		595					600					605			
Pro	Lys	Ser	Pro	Val	Glu	Glu	Val	Lys	Pro	Lys	Pro	Glu	Ala	Lys	Ala
	610					615					620				
Gly	Lys	Gly	Glu	Gln	Lys	Glu	Glu	Glu	Lys	Val	Glu	Glu	Glu	Lys	Lys
	625				630					635					640
Glu	Val	Thr	Lys	Glu	Ser	Pro	Lys	Glu	Glu	Lys	Val	Glu	Lys	Lys	Glu
				645					650					655	
Glu	Lys	Pro	Lys	Asp	Val	Ala	Asp	Lys	Lys	Lys	Ala	Glu	Ser	Pro	Val
			660					665					670		
Lys	Glu	Lys	Ala	Val	Glu	Glu	Val	Ile	Thr	Ile	Ser	Lys	Ser	Val	Lys
		675					680					685			
Val	Ser	Leu	Glu	Lys	Asp	Thr	Lys	Glu	Glu	Lys	Pro	Gln	Pro	Gln	Glu
	690					695					700				
Lys	Val	Lys	Glu	Lys	Ala	Glu	Glu	Glu	Gly	Gly	Ser	Glu	Glu	Glu	Gly
	705				710					715					720
Ser	Asp	Arg	Ser	Pro	Gln	Glu	Ser	Lys	Lys	Glu	Asp	Ile	Ala	Ile	Asn
				725					730					735	
Gly	Glu	Val	Glu	Gly	Lys	Glu	Glu	Glu	Glu	Gln	Glu	Thr	Gln	Glu	Lys
			740					745					750		

Gly Ser Gly Arg Glu Glu Glu Lys Gly Val Val Thr Asn Gly Leu Asp
 755 760 765
 Val Ser Pro Ala Glu Glu Lys Lys Gly Glu Asp Ser Ser Asp Asp Lys
 770 775 780
 Val Val Val Thr Lys Lys Val Glu Lys Ile Thr Ser Glu Gly Gly Asp
 785 790 795 800
 Gly Ala Thr Lys Tyr Ile Thr Lys Ser Val Thr Val Thr Gln Lys Val
 805 810 815
 Glu Glu His Glu Glu Thr Phe Glu Glu Lys Leu Val Ser Thr Lys Lys
 820 825 830
 Val Glu Lys Val Thr Ser His Ala Ile Val Lys Glu Val Thr Gln Gly
 835 840 845
 Asp

<210> 101
 <211> 50
 <212> PRT
 <213> Mus musculus

<400> 101
 Ser Tyr Gln Asp Thr Ile Gln Gln Leu Glu Asn Glu Leu Arg Gly Thr
 1 5 10 15
 Lys Trp Glu Met Ala Arg His Leu Arg Glu Tyr Gln Asp Leu Leu Asn
 20 25 30
 Val Lys Met Ala Leu Asp Ile Glu Ile Ala Ala Tyr Arg Arg Leu Leu
 35 40 45
 Glu Gly
 50

<210> 102
 <211> 55
 <212> PRT
 <213> Mus musculus

<400> 102
 His Asp Leu Ser Ser Tyr Gln Asp Thr Ile Gln Gln Leu Glu Asn Glu
 1 5 10 15
 Leu Arg Gly Thr Lys Trp Glu Met Ala Arg His Leu Arg Glu Tyr Gln
 20 25 30
 Asp Leu Leu Asn Val Lys Met Ala Leu Asp Ile Glu Ile Ala Ala Tyr
 35 40 45
 Arg Lys Leu Leu Glu Gly Glu
 50 55

<210> 103
 <211> 53
 <212> PRT
 <213> Mus musculus

<400> 103
 Leu Ser Ser Tyr Gln Asp Thr Ile Gln Gln Leu Glu Asn Glu Leu Arg
 1 5 10 15
 Gly Thr Lys Trp Glu Met Ala Arg His Leu Arg Glu Tyr Gln Asp Leu
 20 25 30
 Leu Asn Val Lys Met Ala Leu Asp Ile Glu Ile Ala Ala Tyr Arg Lys
 35 40 45
 Leu Leu Glu Gly Gly
 50

<210> 104
 <211> 38
 <212> PRT
 <213> Mus musculus

<400> 104
 Leu Arg Gly Thr Lys Trp Glu Met Ala Arg His Leu Arg Glu Tyr Gln
 1 5 10 15
 Asp Leu Leu Asn Val Lys Met Ala Leu Asp Ile Glu Ile Ala Tyr
 20 25 30
 Arg Lys Leu Leu Glu Gly
 35

<210> 105
 <211> 996
 <212> PRT
 <213> Mus musculus

<400> 105
 Met Lys Arg Ile Phe Ser Cys Ser Ser Ser Gln Val Ala Val Glu Lys
 1 5 10 15
 Trp Asn Arg Arg Asp Gln Lys Leu Leu Glu Ala Val Gln Arg Gly Asp
 20 25 30
 Val Gly Arg Val Ala Ala Leu Ala Ser Arg Lys Ser Ala Arg Pro Thr
 35 40 45
 Lys Leu Asp Ser Asn Gly Gln Ser Pro Phe His Leu Ala Ala Ser Lys
 50 55 60
 Gly Leu Thr Glu Cys Leu Thr Ile Leu Leu Ala Asn Gly Ala Asp Ile
 65 70 75 80
 Asn Ser Lys Asn Glu Asp Gly Ser Thr Ala Leu His Leu Ala Thr Ile
 85 90 95
 Ser Cys Gln Pro Gln Cys Val Lys Val Leu Leu Gln His Gly Ala Asn
 100 105 110
 Glu Asp Ala Val Asp Ala Glu Asn Arg Ser Pro Leu His Trp Ala Ala
 115 120 125
 Ser Ser Gly Cys Ala Ser Ser Val Leu Leu Leu Cys Asp His Glu Ala
 130 135 140
 Phe Leu Asp Val Leu Asp Asn Asp Gly Arg Thr Pro Leu Met Ile Ala
 145 150 155 160
 Ser Leu Gly Gly His Ala Ala Ile Cys Ser Gln Leu Leu Gln Arg Gly
 165 170 175
 Ala Arg Val Asn Val Thr Asp Lys Asp Asp Lys Ser Ala Leu Ile Leu
 180 185 190
 Ala Cys Glu Lys Gly Ser Ala Glu Val Ala Glu Leu Leu Ser His
 195 200 205
 Gly Ala Asp Ala Gly Ala Val Asp Ser Leu Gly His Asn Ala Leu His
 210 215 220
 Tyr Ala Leu Arg Thr Gln Asp Lys Glu Leu Trp Arg Leu Leu Gln Gln
 225 230 235 240
 Ala Leu Asn Arg Arg Arg Gly Gly His Gly Leu Val Gln His Pro
 245 250 255
 Asp His Pro Ser Gln Ala Ser Ser Cys Glu Pro Arg Val Gly Ser Pro
 260 265 270
 Pro Lys Asn Ser Arg Lys Val Glu Pro Glu Glu Glu Gln Glu Glu Glu
 275 280 285
 Gly Glu Glu Arg Cys Ser Glu Glu Trp Arg Trp Lys Phe Glu Glu Glu
 290 295 300
 Gln Arg Lys Val His Gln Leu Glu Gln Glu Leu Val Arg Lys Thr Asp
 305 310 315 320
 Glu Cys Lys Ala His Ala Ala Ala Phe Ser Ser Leu Glu Glu Gln Ile
 325 330 335
 Arg Glu Gln Ala Gln Glu Leu Gly His Leu Leu Val Gln Glu Pro Gly
 340 345 350
 Ala Pro Gly Asn Gln Gly Pro Gly Leu Arg Pro Glu Gly Asp Gly Met
 355 360 365
 Glu Glu Gly Cys Pro Leu Asn Leu Leu Ala Glu Arg Ile Gln Glu Leu
 370 375 380
 Lys Lys Gln Gln Lys Ala Leu Ala Thr Ile Asn Pro Thr Leu Val Pro
 34

385	Lys	Arg	Ala	Glu	Glu	390	Leu	Ala	Pro	Ala	Glu	395	Ile	His	His	Glu	Val	400	His
					405						410						415		
	Arg	Lys	Ser	Gln	Pro		Glu	Gln	Gly	Leu	Pro		Gln	Gly	Pro	Ser	Ser	Glu	
				420						425						430			
	Thr	Thr	Gly	Lys	Ala		Thr	Gly	Gln	Gln	Pro		Asn	Thr	Asn	Gly	Gly	Gln	
			435						440						445				
	Asn	Leu	Gly	Leu	Gln		Asn	Thr	Glu	Gln	Val		Cys	Ala	Gly	Gln	Lys	Glu	
		450						455						460					
	Arg	Thr	Pro	Ala	Pro		Gly	Thr	Glu	Thr	Ala		Gly	Thr	Val	Gly	Glu	Pro	
		465					470						475					480	
	Val	Gly	Ile	Ala	Met		Asn	Gln	Leu	Leu	Leu		Gln	Leu	Arg	Glu	Glu	Leu	
					485						490						495		
	Ala	Ala	Val	Trp	Arg		Glu	Lys	Asp	Ala	Ala		Arg	Gly	Ala	Leu	Ser	Arg	
				500						505						510			
	Pro	Val	Leu	Glu	Gly		Ala	Leu	Gly	Thr	Pro		Arg	Ala	Glu	Ala	Ala	Ala	
			515						520						525				
	Ala	Ala	Trp	Glu	Lys		Met	Glu	Ala	Arg	Leu		Glu	Arg	Val	Leu	Val	Arg	
		530						535						540					
	Leu	Asp	Gly	Ala	Lys		Met	Gly	Leu	His	Val		Lys	Pro	Glu	Val	Pro	Val	
		545					550						555				560		
	Gln	Gly	Ser	Arg	Asp		Gly	Ala	Pro	Lys	Ala		Val	Pro	Gly	Cys	Ser	Lys	
					565						570						575		
	Glu	Gln	Glu	Glu	Lys		Lys	Ala	Leu	Gly	Thr		Arg	Gly	Glu	Pro	Leu	Gly	
				580						585						590			
	Ala	Pro	Gly	Lys	Glu		Gln	Ala	Leu	Gly	Gly		Gly	Leu	Ala	Lys	Gly	Gln	
			595						600						605				
	Leu	Glu	Lys	Glu	Val		Ser	Ala	Leu	Arg	Leu		Ser	Asn	Ser	Asn	Leu	Leu	
		610						615						620					
	Glu	Glu	Leu	Gly	Glu		Leu	Gly	Arg	Glu	Arg		Gln	Arg	Leu	Gln	Gly	Glu	
		625					630						635					640	
	Leu	Gln	Ser	Leu	Thr		Gln	Arg	Leu	His	Arg		Glu	Phe	Val	Pro	Lys	Pro	
					645						650						655		
	Glu	Ala	Gln	Val	Gln		Leu	Gln	Gln	Leu	Arg		Arg	Ser	Val	Gly	Met	Leu	
				660						665						670			
	Thr	Glu	Glu	Leu	Ala		Met	Glu	Lys	Glu	Ala		Thr	Asp	Lys	Leu	Arg	Arg	
			675						680						685				
	Leu	Leu	Ala	Ser	Gln		Thr	Ser	Gly	Leu	Gln		Gly	Leu	Trp	Lys	Cys	Leu	
		690						695						700					
	Pro	Pro	Asp	Leu	Val		Gly	Lys	Gly	Asn	Thr		Gln	Ser	Thr	Ala	Ala	Glu	
							710						715					720	
	Pro	Leu	Glu	Glu	Leu		Gln	Ala	Cys	Ile	Ser		Thr	Leu	Val	Asp	Arg	His	
					725						730						735		
	Leu	Glu	Ala	Gln	Arg		Val	Leu	Ala	Arg	Leu		Glu	Glu	Glu	Asn	Gln	Gln	
				740						745						750			
	Leu	Arg	Gly	Ser	Leu		Ala	Pro	Cys	Gly	Glu		Pro	Glu	Ala	Ser	Leu	Lys	
			755						760						765				
	Val	Thr	Ala	Ser	Pro		Gln	Val	Ala	Ala	Leu		Glu	Glu	Asp	Leu	Gly	Met	
			770					775						780					
	Leu	Glu	Glu	Glu	Leu		Arg	Ala	Val	Gln	Ala		Thr	Met	Ser	Gly	Lys	Ser	
		785					790						795					800	
	Gln	Glu	Ile	Cys	Lys		Leu	Lys	Gln	Leu	Leu		Tyr	Gln	Ala	Thr	Glu	Glu	
					805						810						815		
	Val	Ala	Glu	Leu	Arg		Ala	Arg	Glu	Ala	Ala		Ser	Leu	Arg	Gln	His	Glu	
				820						825						830			
	Lys	Thr	Arg	Gly	Ser		Leu	Val	Ala	Gln	Ala		Gln	Ala	Trp	Gly	Gln	Glu	
			835						840						845				
	Leu	Lys	Val	Val	Leu		Glu	Lys	Tyr	Asn	Thr		Ala	Cys	Arg	Glu	Met	Thr	
		850						855						860					
	Arg	Leu	Arg	Asp	Thr		Val	Ala	Glu	Glu	Arg		Arg	Arg	Ser	Glu	Asp	Leu	
		865					870						875					880	
	Ala	Ala	Arg	Ala	Ala		Glu	Gln	Glu	Arg	Gln		Ala	Gly	Glu	Met	Arg	Gly	
					885						890						895		
	Arg	Ser	Glu	Gln	Phe		Glu	Lys	Thr	Ala	Glu		Leu	Leu	Lys	Glu	Lys	Thr	
													35						

```

      900      905      910
Asn His Leu Ile Gly Ala Cys Arg Asp Lys Glu Ala Lys Ile Lys Glu
      915      920      925
Leu Leu Lys Lys Leu Glu Gln Leu Ser Glu Glu Val Leu Glu Val Arg
      930      935      940
Gly Glu Asn Ala His Leu Ala Leu Gln Leu Gln Asp Ser Gln Lys Asn
945      950      955
His Glu Glu Ile Ile Ser Thr Tyr Arg Ser His Leu Leu Asn Ala Ala
      960      965      970      975
Arg Gly Tyr Met Glu Gln Asp Val Tyr Asn Ile Leu Leu Arg Ile Leu
      980      985      990

```

```

Ser Met Gln Glu
      995

```

```

<210> 106
<211> 68
<212> PRT
<213> Mus musculus

```

```

<400> 106
Gly Leu Ala Lys Gly Gln Leu Glu Lys Glu Val Ser Ala Leu Arg Leu
1      5      10      15
Ser Asn Ser Asn Leu Leu Glu Glu Leu Gly Glu Leu Gly Arg Glu Arg
      20      25      30
Gln Arg Leu Gln Gly Glu Leu Gln Ser Leu Thr Gln Arg Leu His Arg
      35      40      45
Glu Phe Val Pro Lys Pro Glu Ala Gln Val Gln Leu Gln Gln Leu Arg
      50      55      60
Arg Ser Val Arg
65

```

```

<210> 107
<211> 68
<212> PRT
<213> Mus musculus

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```

<400> 107
Gly Leu Ala Lys Gly Gln Leu Glu Lys Glu Val Ser Ala Leu Arg Leu
1      5      10      15
Ser Asn Ser Asn Leu Leu Glu Glu Leu Gly Glu Leu Gly Arg Glu Arg
      20      25      30
Gln Arg Leu Gln Gly Glu Leu Gln Ser Leu Thr Gln Arg Leu His Arg
      35      40      45
Glu Phe Val Pro Lys Pro Glu Ala Gln Val Gln Leu Gln Gln Leu Arg
      50      55      60
Arg Ser Met Arg
65

```

```

<210> 108
<211> 68
<212> PRT
<213> Mus musculus

```

```

<400> 108
Gly Leu Ala Lys Gly Gln Leu Glu Lys Glu Val Ser Ala Leu Gly Leu
1      5      10      15
Ser Asn Ser Asn Leu Leu Glu Glu Leu Gly Glu Leu Gly Arg Glu Arg
      20      25      30
Gln Arg Leu Gln Gly Glu Leu Gln Ser Leu Thr Gln Arg Leu His Arg
      35      40      45
Glu Phe Val Pro Lys Pro Glu Ala Gln Val Leu Leu Gln Gln Leu Arg
      50      55      60
Arg Ser Val Met

```

65

<210> 109
 <211> 450
 <212> PRT
 <213> Mus musculus

<400> 109
 Met Met Asp Val Ser Arg Thr Gln Thr Ala Val Ser Ile Val Glu Glu
 1 5 10 15
 Asp Leu Lys Leu Leu Gln Leu Lys Leu Arg Ala Ser Met Ser Thr Lys
 20 25 30
 Cys Asn Leu Glu Asp Gln Ile Lys Lys Leu Glu Asp Asp Arg Ser Ser
 35 40 45
 Leu Gln Thr Ala Lys Ala Gly Leu Glu Asp Glu Cys Lys Thr Leu Arg
 50 55 60
 Gln Lys Val Glu Ile Leu Asn Glu Leu Tyr Gln Gln Lys Glu Met Ala
 65 70 75 80
 Leu Gln Lys Lys Leu Ser Gln Glu Glu Tyr Glu Arg Gln Asp Arg Glu
 85 90 95
 Gln Arg Leu Thr Ala Ala Asp Glu Lys Val Val Leu Ala Ala Glu Glu
 100 105 110
 Val Lys Thr Tyr Lys Arg Arg Ile Glu Glu Met Glu Glu Glu Leu Gln
 115 120 125
 Lys Thr Glu Arg Ser Phe Lys Asn Gln Ile Ala Ala His Glu Lys Lys
 130 135 140
 Ala His Asp Asn Trp Leu Lys Ala Arg Ala Ala Glu Arg Ala Met Ala
 145 150 155 160
 Glu Glu Lys Arg Glu Ala Ala Asn Leu Arg His Lys Leu Leu Glu Met
 165 170 175
 Thr Gln Lys Met Ala Met Arg Gln Asp Glu Pro Val Ile Val Lys Pro
 180 185 190
 Met Pro Gly Arg Pro Asn Thr Gln Asn Pro Pro Arg Arg Gly Leu Leu
 195 200 205
 Ser Gln Asn Gly Ser Phe Gly Pro Ser Pro Val Ser Gly Gly Glu Cys
 210 215 220
 Ser Pro Pro Leu Pro Ala Glu Pro Pro Gly Arg Pro Leu Ser Ala Thr
 225 230 235 240
 Leu Ser Arg Arg Asp Thr Pro Arg Ser Glu Phe Gly Ser Leu Asp Arg
 245 250 255
 His Leu Pro Arg Pro Arg Trp Pro Ser Glu Ala Ser Gly Lys His Ser
 260 265 270
 Ala Ser Asp Pro Gly Pro Ala Pro Val Val Asn Ser Ser Arg Ser
 275 280 285
 Ser Ser Pro Ala Lys Ala Val Asp Glu Gly Lys Val Asn Met Ala Pro
 290 295 300
 Lys Gly Pro Pro Pro Phe Pro Gly Val Pro Leu Met Gly Gly Pro Val
 305 310 315 320
 Pro Pro Pro Ile Arg Tyr Gly Pro Pro Pro Gln Leu Cys Gly Gly Pro
 325 330 335
 Phe Gly Pro Arg Pro Leu Pro Pro Phe Val Pro Gly Met His Pro
 340 345 350
 Pro Leu Gly Val Arg Glu Tyr Ala Pro Gly Val Leu Pro Gly Lys Arg
 355 360 365
 Asp Leu Pro Leu Asp Pro Arg Glu Phe Leu Pro Gly His Thr Pro Phe
 370 375 380
 Arg Pro Pro Gly Ser Leu Gly Pro Arg Glu Phe Phe Ile Pro Gly Thr
 385 390 395 400
 Arg Leu Pro Pro Pro Thr His Gly Pro Gln Glu Tyr Pro Pro Pro Pro
 405 410 415
 Pro Ala Val Arg Asp Ser Leu Pro Ser Gly Pro Arg Glu Glu Ala Lys
 420 425 430
 Pro Ala Ser Pro Ser Ser Val Gln Asp Arg Ser Gln Ala Ser Lys Pro
 435 440 445

Thr Pro
450

<210> 110
<211> 58
<212> PRT
<213> Mus musculus

<400> 110
Leu Leu Gln Leu Lys Leu Arg Ala Ser Met Ser Thr Lys Cys Asn Leu
1 5 10 15
Glu Asn Gln Ile Lys Lys Leu Glu Asp Asp Arg Ser Ser Leu Gln Thr
20 25 30
Ala Lys Ala Gly Leu Glu Asp Glu Cys Lys Thr Leu Arg Gln Lys Val
35 40 45
Glu Ile Leu Asn Glu Leu Tyr Leu Gln Thr
50 55

<210> 111
<211> 44
<212> PRT
<213> Mus musculus

<400> 111
Leu Glu Asp Gln Ile Lys Lys Leu Glu Asp Asp Arg Ser Ser Leu Gln
1 5 10 15
Thr Ala Lys Ala Gly Leu Glu Asp Glu Cys Lys Thr Leu Arg Gln Lys
20 25 30
Val Glu Ile Leu Asn Glu Leu Tyr Gln Gln Ser Arg
35 40

<210> 112
<211> 225
<212> PRT
<213> Mus musculus

<400> 112
His Leu Arg Lys Val Lys Phe Gln Ala Lys Leu Glu His Glu Tyr Ile
1 5 10 15
His Asn Phe Lys Val Leu Gln Ala Ala Phe Lys Lys Met Gly Val Asp
20 25 30
Lys Ile Ile Pro Val Glu Lys Leu Val Lys Gly Lys Phe Gln Asp Asn
35 40 45
Phe Glu Phe Ile Gln Trp Phe Lys Lys Phe Phe Asp Ala Asn Tyr Asp
50 55 60
Gly Lys Asp Tyr Asn Pro Leu Leu Ala Arg Gln Gly Gln Asp Val Ala
65 70 75 80
Pro Pro Pro Asn Pro Gly Asp Gln Ile Phe Asn Lys Ser Lys Lys Leu
85 90 95
Ile Gly Thr Ala Val Pro Gln Arg Thr Ser Pro Thr Gly Pro Lys Asn
100 105 110
Met Gln Thr Ser Gly Arg Leu Ser Asn Val Ala Pro Pro Cys Ile Leu
115 120 125
Arg Lys Asn Pro Pro Ser Ala Arg Asn Gly Gly His Glu Ala Asp Ala
130 135 140
Gln Ile Leu Glu Leu Asn Gln Gln Leu Leu Asp Leu Lys Leu Thr Val
145 150 155 160
Asp Gly Leu Glu Lys Glu Arg Asp Phe Tyr Phe Ser Lys Leu Arg Asp
165 170 175
Ile Glu Leu Ile Cys Gln Glu His Glu Ser Glu Asn Ser Pro Val Ile
180 185 190
ser Gly Ile Ile Gly Ile Leu Tyr Ala Thr Glu Glu Gly Phe Ala Pro
195 200 205
Pro Glu Asp Asp Glu Ile Glu Glu His Gln Gln Glu Asp Gln Asp Glu
38

210 215 220

Tyr
225

<210> 113
<211> 86
<212> PRT
<213> Mus musculus

<400> 113
Arg Asn Gly Gly His Glu Ala Asp Ala Gln Ile Leu Glu Leu Asn Gln
1 5 10 15
Gln Leu Leu Asp Leu Lys Leu Thr Val Asp Gly Leu Glu Arg Glu Arg
20 25 30
Asp Phe Tyr Phe Ser Lys Leu Arg Asp Ile Glu Leu Ile Cys Gln Glu
35 40 45
His Glu Ser Glu Asn Ser Pro Val Ile Ser Gly Ile Ile Gly Ile Leu
50 55 60
Tyr Ala Thr Glu Glu Gly Phe Ala Pro Pro Glu Asp Asp Glu Ile Glu
65 70 75 80
Glu His Gln Gln Glu Glu
85

<210> 114
<211> 485
<212> PRT
<213> Mus musculus

<400> 114
Met Asn Asn Phe Glu Cys Glu Pro Ala Phe Tyr Thr Cys Val Glu Val
1 5 10 15
Thr Ala Gly Asn Arg Leu Phe Tyr His Ile Val Asp Ser Asp Glu Val
20 25 30
Ser Thr Lys Ile Leu Met Glu Phe Asn Lys Met Asn Leu Pro Gly Glu
35 40 45
Val Thr Phe Leu Pro Leu Asn Lys Leu Asp Val Arg Asp Thr Ala Tyr
50 55 60
Pro Glu Thr Asn Asp Ala Ile Pro Met Ile Ser Lys Leu Arg Tyr Asn
65 70 75 80
Pro Arg Phe Asp Lys Ala Phe Lys His Val Phe Gly Lys Thr Leu Ile
85 90 95
Cys Arg Ser Met Glu Val Ser Thr Gln Leu Ala Arg Ala Phe Thr Met
100 105 110
Asp Cys Ile Thr Leu Glu Gly Asp Gln Val Ser His Arg Gly Ala Leu
115 120 125
Thr Gly Gly Tyr Tyr Asp Thr Arg Lys Ser Arg Leu Glu Leu Gln Lys
130 135 140
Asp Val Arg Lys Ala Glu Glu Glu Leu Gly Glu Leu Glu Ala Lys Leu
145 150 155 160
Asn Glu Asn Leu Arg Arg Asn Ile Glu Arg Ile Asn Asn Glu Ile Asp
165 170 175
Gln Leu Met Asn Gln Met Gln Gln Ile Glu Thr Gln Gln Arg Lys Phe
180 185 190
Lys Ala Ser Arg Asp Ser Ile Leu Ser Glu Met Lys Met Leu Lys Glu
195 200 205
Lys Arg Gln Gln Ser Glu Lys Thr Phe Met Pro Lys Gln Arg Ser Leu
210 215 220
Gln Ser Leu Glu Ala Ser Leu His Ala Met Glu Ser Thr Arg Glu Ser
225 230 235 240
Leu Lys Ala Glu Leu Gly Thr Asp Leu Leu Ser Gln Leu Ser Leu Glu
245 250 255
Asp Gln Lys Arg Val Asp Ala Leu Asn Asp Glu Ile Arg Gln Leu Gln
260 265 270
Gln Glu Asn Arg Gln Leu Leu Asn Glu Arg Ile Lys Leu Glu Gly Ile
39

Ile	Thr	Arg	Val	Glu	Thr	Tyr	Leu	Asn	Glu	Asn	Leu	Arg	Lys	Arg	Leu
290						295					300				
Asp	Gln	Val	Glu	Gln	Glu	Leu	Asn	Glu	Leu	Arg	Glu	Thr	Glu	Gly	Gly
305					310					315					320
Thr	Val	Leu	Thr	Ala	Thr	Thr	Ser	Glu	Leu	Glu	Ala	Ile	Asn	Lys	Arg
				325					330					335	
Val	Lys	Asp	Thr	Met	Ala	Arg	Ser	Glu	Asp	Leu	Asp	Asn	Ser	Ile	Asp
			340					345					350		
Lys	Thr	Glu	Ala	Gly	Ile	Lys	Glu	Leu	Gln	Lys	Ser	Met	Glu	Arg	Trp
		355					360					365			
Lys	Asn	Met	Glu	Lys	Glu	His	Met	Asp	Ala	Ile	Asn	His	Asp	Thr	Lys
	370					375					380				
Glu	Leu	Glu	Lys	Met	Thr	Asn	Arg	Gln	Gly	Met	Leu	Leu	Lys	Lys	Lys
385					390					395					400
Glu	Glu	Cys	Met	Lys	Lys	Ile	Arg	Glu	Leu	Gly	Ser	Leu	Pro	Gln	Glu
				405					410					415	
Ala	Phe	Glu	Lys	Tyr	Gln	Thr	Leu	Ser	Leu	Lys	Gln	Leu	Phe	Arg	Lys
			420					425					430		
Leu	Glu	Gln	Cys	Asn	Thr	Glu	Leu	Lys	Lys	Tyr	Ser	His	Val	Asn	Lys
	435					440						445			
Lys	Ala	Leu	Asp	Gln	Phe	Val	Asn	Phe	Ser	Glu	Gln	Lys	Glu	Arg	Leu
	450					455					460				
Ile	Lys	Arg	Gln	Glu	Glu	Leu	Asp	Arg	Gly	Tyr	Lys	Ser	Ile	Met	Glu
465					470					475					480
Leu	Met	Lys	Cys	Thr											
				485											

<210> 115
 <211> 73
 <212> PRT
 <213> Mus musculus

<400> 115

Gln	Lys	Arg	Val	Asp	Ala	Leu	Asn	Asp	Glu	Ile	Arg	Gln	Leu	Gln	Gln
1				5					10				15		
Glu	Asn	Arg	Gln	Leu	Leu	Asn	Glu	Arg	Ile	Lys	Leu	Glu	Gly	Ile	Ile
			20					25				30			
Thr	Arg	Val	Glu	Thr	Tyr	Leu	Asn	Glu	Asn	Leu	Arg	Lys	Arg	Leu	Asp
		35				40						45			
Gln	Val	Glu	Gln	Glu	Leu	Asn	Glu	Leu	Arg	Glu	Thr	Glu	Gly	Gly	Thr
	50					55					60				
Val	Leu	Thr	Ala	Thr	Thr	Ser	Glu	Lys							
65					70										

<210> 116
 <211> 1337
 <212> PRT
 <213> Mus musculus

<400> 116

Met	Met	Glu	Ile	Gln	Met	Asp	Glu	Gly	Gly	Gly	Val	Val	Val	Tyr	Gln
1				5				10						15	
Asp	Asp	Tyr	Cys	Ser	Gly	Ser	Val	Met	Ser	Glu	Arg	Val	Ser	Gly	Leu
			20					25				30			
Ala	Gly	Ser	Ile	Tyr	Arg	Glu	Phe	Glu	Arg	Leu	Ile	His	Cys	Tyr	Asp
	35					40					45				
Glu	Glu	Val	Val	Lys	Glu	Leu	Met	Pro	Leu	Val	Val	Asn	Val	Leu	Glu
	50					55				60					
Asn	Leu	Asp	Ser	Val	Leu	Ser	Glu	Asn	Gln	Glu	His	Glu	Val	Glu	Leu
65					70				75					80	
Glu	Leu	Leu	Arg	Glu	Asp	Asn	Glu	Gln	Leu	Leu	Thr	Gln	Tyr	Glu	Arg
			85					90					95		
Glu	Lys	Ala	Leu	Arg	Lys	Gln	Ala	Glu	Glu	Lys	Phe	Ile	Glu	Phe	Glu
										40					

Asp	Ala	Leu	100	Glu	Gln	Glu	Lys	Lys	105	Glu	Leu	Gln	Ile	Gln	110	Val	Glu	His
Tyr	Glu	115	Phe	Gln	Thr	Arg	Gln	120	Leu	Glu	Leu	Lys	Ala	125	Lys	Asn	Tyr	Ala
Asp	Gln	130	Ile	Ser	Arg	Leu	Glu	135	Glu	Arg	Glu	Ser	Glu	140	Met	Lys	Lys	Glu
145	Tyr	Asn	Ala	Leu	His	Gln	Arg	His	Thr	Glu	Met	Ile	Gln	155	Thr	Tyr	Val	160
Glu	His	Ile	Glu	165	Arg	Ser	Lys	Met	Gln	170	Val	Gly	Gly	175	Ser	Gly	Gln	180
Thr	Glu	Ser	Ser	185	Leu	Pro	Gly	Arg	Ser	190	Arg	Lys	Glu	200	Arg	Pro	Thr	Ser
Leu	Asn	Val	Phe	195	Pro	Leu	Ala	205	Asp	Gly	Met	Val	Arg	210	Ala	Gln	Met	Gly
Gly	Lys	Leu	Val	215	Pro	Ala	Gly	220	Asp	His	Trp	His	Leu	225	Ser	Asp	Leu	Gly
Gln	Leu	Gln	Ser	230	Ser	Ser	Ser	235	Tyr	Gln	Cys	Pro	Asn	240	Asp	Glu	Met	Ser
Glu	Ser	Gly	Gln	245	Ser	Ser	Ala	250	Ala	Thr	Pro	Ser	Thr	255	Thr	Gly	Thr	260
Lys	Ser	Asn	Thr	265	Pro	Thr	Ser	270	Ser	Val	Pro	Ser	Ala	275	Val	Thr	Pro	280
Leu	Asn	Glu	Ser	285	Leu	Gln	Pro	290	Leu	Gly	Asp	Tyr	Val	295	Ser	Val	Thr	Lys
Asn	Asn	Lys	Gln	300	Ala	Arg	Glu	305	Lys	Arg	Asn	Ser	Arg	310	Asn	Met	Glu	Val
Gln	Val	Thr	Gln	315	Glu	Met	Arg	320	Asn	Val	Ser	Ile	Gly	325	Met	Gly	Ser	Ser
Asp	Glu	Trp	Ser	330	Asp	Val	Gln	335	Asp	Ile	Ile	Asp	Ser	340	Thr	Pro	Glu	Leu
Asp	Val	Cys	Pro	345	Glu	Thr	Arg	350	Leu	Glu	Arg	Thr	Gly	355	Ser	Ser	Pro	Thr
Gln	Gly	Ile	Val	360	Asn	Lys	Ala	365	Leu	Gly	Ile	Asn	Thr	370	Asp	Ser	Leu	Tyr
His	Glu	Leu	Ser	375	Thr	Ala	Gly	380	Ser	Glu	Val	Ile	Gly	385	Asp	Val	Asp	Glu
Gly	Ala	Asp	Leu	390	Leu	Gly	Glu	395	Phe	Ser	Val	Arg	Asp	400	Asp	Phe	Phe	Gly
Met	Gly	Lys	Glu	405	Val	Gly	Asn	410	Leu	Leu	Glu	Asn	Ser	415	Gln	Leu	Leu	420
Glu	Thr	Lys	Asn	425	Ala	Leu	Asn	430	Val	Val	Lys	Asn	Asp	435	Leu	Ile	Ala	Lys
Val	Asp	Gln	Leu	440	Ser	Gly	Glu	445	Gln	Glu	Val	Leu	Lys	450	Gly	Glu	Leu	Glu
Ala	Ala	Lys	Gln	455	Ala	Lys	Val	460	Lys	Leu	Glu	Asn	Arg	465	Ile	Lys	Glu	Leu
Glu	Glu	Glu	Leu	470	Arg	Val	Lys	475	Ser	Glu	Ala	Val	Thr	480	Ala	Arg	Arg	485
Glu	Pro	Arg	Glu	490	Glu	Val	Glu	495	Asp	Val	Ser	Ser	Tyr	500	Leu	Cys	Thr	Glu
Leu	Asp	Lys	Ile	505	Pro	Met	Ala	510	Gln	Arg	Arg	Arg	Phe	515	Thr	Arg	Val	Glu
Met	Ala	Arg	Val	520	Leu	Met	Glu	525	Arg	Asn	Gln	Tyr	Lys	530	Glu	Arg	Leu	Met
Glu	Leu	Gln	Glu	535	Ala	Val	Arg	540	Trp	Thr	Glu	Met	Ile	545	Arg	Ala	Ser	Arg
Glu	His	Pro	Ser	550	Val	Gln	Glu	555	Lys	Lys	Lys	Ser	Thr	560	Ile	Trp	Gln	Phe
Phe	Ser	Arg	Leu	565	Phe	Ser	Ser	570	Ser	Ser	Pro	Pro	Pro	575	Ala	Lys	Arg	580
Ser	Tyr	Pro	Ser	585	Val	Asn	Ile	590	His	Tyr	Lys	Ser	Pro	595	Thr	Ala	Ala	Gly
Phe	Ser	Gln	Arg	600	Arg	Ser	His	605	Ala	Leu	Cys	Gln	Ile	610	Ser	Ala	Gly	Ser

610	615	620
Arg Pro Leu Glu Phe Phe	Pro Asp Asp Asp Cys Thr Ser Ser Ala Arg	
625	630	635
Arg Glu Gln Lys Arg Glu	Gln Tyr Arg Gln Val Arg Glu His Val Arg	640
645	650	655
Asn Asp Asp Gly Arg Leu Gln Ala Cys Gly Trp Ser Leu Pro Ala Lys		
660	665	670
Tyr Lys Gln Leu Ser Pro Asn Gly Gly Gln Glu Asp Thr Arg Met Lys		
675	680	685
Asn Val Pro Val Pro Val Tyr Cys Arg Pro Leu Val Glu Lys Asp Pro		
690	695	700
Ser Thr Lys Leu Trp Cys Ala Ala Gly Val Asn Leu Ser Gly Trp Lys		
705	710	715
Pro His Glu Glu Asp Ser Ser Asn Gly Pro Lys Pro Val Pro Gly Arg		
725	730	735
Asp Pro Leu Thr Cys Asp Arg Glu Gly Glu Gly Glu Pro Lys Ser Thr		
740	745	750
His Pro Ser Pro Glu Lys Lys Lys Ala Lys Glu Thr Pro Glu Ala Asp		
755	760	765
Ala Thr Ser Ser Arg Val Trp Ile Leu Thr Ser Thr Leu Thr Thr Ser		
770	775	780
Lys Val Val Ile Ile Asp Ala Asn Gln Pro Gly Thr Ile Val Asp Gln		
785	790	795
Phe Thr Val Cys Asn Ala His Val Leu Cys Ile Ser Ser Ile Pro Ala		
805	810	815
Ala Ser Asp Ser Asp Tyr Pro Pro Gly Glu Met Phe Leu Asp Ser Asp		
820	825	830
Val Asn Pro Glu Asp Ser Gly Ala Asp Gly Val Leu Ala Gly Ile Thr		
835	840	845
Leu Val Gly Cys Ala Thr Arg Cys Asn Val Pro Arg Ser Asn Cys Ser		
850	855	860
Ser Arg Gly Asp Thr Pro Val Leu Asp Lys Gly Gln Gly Asp Val Ala		
865	870	875
Thr Thr Ala Asn Gly Lys Val Asn Pro Ser Gln Ser Thr Glu Glu Ala		
885	890	895
Thr Glu Ala Thr Glu Val Pro Asp Pro Gly Pro Ser Glu Ser Glu Ala		
900	905	910
Thr Thr Val Arg Pro Gly Pro Leu Thr Glu His Val Phe Thr Asp Pro		
915	920	925
Ala Pro Thr Pro Ser Ser Ser Thr Gln Pro Ala Ser Glu Asn Gly Ser		
930	935	940
Glu Ser Asn Gly Thr Ile Val Gln Pro Gln Val Glu Pro Ser Gly Glu		
945	950	955
Leu Ser Thr Thr Thr Ser Ser Ala Ala Pro Thr Met Trp Leu Gly Ala		
965	970	975
Gln Asn Gly Trp Leu Tyr Val His Ser Ala Val Ala Asn Trp Lys Lys		
980	985	990
Cys Leu His Ser Ile Lys Leu Lys Asp Ser Val Leu Ser Leu Val His		
995	1000	1005
Val Lys Gly Arg Val Leu Val Ala Leu Ala Asp Gly Thr Leu Ala		
1010	1015	1020
Ile Phe His Arg Gly Glu Asp Gly Gln Trp Asp Leu Ser Asn Tyr		
1025	1030	1035
His Leu Met Asp Leu Gly His Pro His His Ser Ile Arg Cys Met		
1040	1045	1050
Ala Val Val Asn Asp Arg Val Trp Cys Gly Tyr Lys Asn Lys Val		
1055	1060	1065
His Val Ile Gln Pro Lys Thr Met Gln Ile Glu Lys Ser Phe Asp		
1070	1075	1080
Ala His Pro Arg Arg Glu Ser Gln Val Arg Gln Leu Ala Trp Ile		
1085	1090	1095
Gly Asp Gly Val Trp Val Ser Ile Arg Leu Asp Ser Thr Leu Arg		
1100	1105	1110
Leu Tyr His Ala His Thr His Gln His Leu Gln Asp Val Asp Ile		

1115	Glu Pro Tyr Val Ser Lys	1120	Met Leu Gly Thr Gly	1125	Lys Leu Gly Phe
1130	Ser Phe Val Arg Ile Thr	1135	Ala Leu Leu Ile Ala	1140	Gly Asn Arg Leu
1145	Trp Val Gly Thr Gly Asn	1150	Gly Val Val Ile Ser	1155	Ile Pro Leu Thr
1160	Glu Thr Val Val Leu His	1165	Arg Gly Gln Leu Leu	1170	Gly Leu Arg Ala
1175	Asn Lys Thr Ser Pro Thr	1180	Ser Gly Glu Gly Thr	1185	Arg Pro Gly Gly
1190	Ile Ile His Val Tyr Gly	1195	Asp Asp Ser Ser Asp	1200	Lys Ala Ala Ser
1205		1210		1215	
1220	Ser Phe Ile Pro Tyr Cys	1225	Ser Met Ala Gln Ala	1230	Gln Leu Cys Phe
1235	His Gly His Arg Asp Ala	1240	Val Lys Phe Phe Val	1245	Ser Val Pro Gly
1250	Asn Val Leu Ala Thr Leu	1255	Asn Gly Ser Val Leu	1260	Asp Ser Pro Ser
1265	Glu Gly Pro Gly Pro Ala	1270	Ala Pro Ala Ala Asp	1275	Ala Glu Gly Gln
1280	Lys Leu Lys Asn Ala Leu	1285	Val Leu Ser Gly Gly	1290	Glu Gly Tyr Ile
1295	Asp Phe Arg Ile Gly Asp	1300	Gly Glu Asp Asp Glu	1305	Thr Glu Glu Cys
1310	Ala Gly Asp Val Asn Gln	1315	Thr Lys Pro Ser Leu	1320	Ser Lys Ala Glu
1325	Arg Ser His Ile Ile Val	1330	Trp Gln Val Ser Tyr	1335	Thr Pro Glu

<210> 117
 <211> 71
 <212> PRT
 <213> Mus musculus

<400> 117
 Glu Thr Lys Asn Ala Leu Asn Val Val Lys Asn Asp Leu Ile Ala Lys
 1 5 10 15
 Val Asp Gln Leu Ser Gly Glu Gln Glu Val Leu Lys Gly Glu Leu Glu
 20 25 30
 Ala Ala Lys Gln Ala Lys Val Lys Leu Glu Asn Arg Ile Lys Glu Leu
 35 40 45
 Glu Lys Glu Leu Lys Arg Val Lys Ser Glu Ala Val Thr Ala Arg Arg
 50 55 60
 Glu Pro Arg Glu Glu Val Asp
 65 70

<210> 118
 <211> 993
 <212> PRT
 <213> Mus musculus

<400> 118
 Met Glu Ala Ala Val Cys Ser Glu Ile Glu Arg Glu Asp Gly Asp Ser
 1 5 10 15
 Ser Cys Gly Asp Val Cys Phe Met Asp Lys Gly Leu His Ser Ile Ser
 20 25 30
 Glu Leu Ser Leu Asp Ser Ser Ile His Ala Ile Asn Leu His Cys Asn
 35 40 45
 Asn Ile Ser Lys Ile Ser Ser Ile Asp His Ile Trp Asn Leu Arg His
 50 55 60
 Leu Asp Leu Ser Ser Asn Gln Ile Ser Gln Ile Glu Gly Leu Asn Thr
 65 70 75 80

Leu	Thr	Lys	Leu	Cys	Thr	Leu	Asn	Leu	Ser	Cys	Asn	Leu	Ile	Thr	Arg	
Val	Glu	Gly	Leu	85	Ala	Leu	Val	Asn	90	Leu	Thr	Lys	Leu	Asn	Leu	Ser
Tyr	Asn	His	100	Asn	Asp	Leu	Ser	105	Gly	Leu	Met	Pro	Leu	His	Gly	Leu
Lys	Tyr	Lys	115	Leu	Arg	Tyr	Ile	120	Asp	Leu	His	Ser	Asn	Tyr	Ile	Asp
Ile	His	His	130	Leu	Leu	Gln	Cys	135	Thr	Val	Gly	Leu	His	Phe	Leu	Thr
145	Leu	Ile	Leu	Glu	Lys	150	Asp	Gly	Glu	Gly	Asn	Pro	Ile	Cys	Leu	Ile
				165	Ile	Ile	Leu	Gln	Thr	Leu	Pro	Gln	Leu	Arg	Ile	Leu
Gly	Tyr	Arg	Ala	180	Ile	Phe	Gly	Glu	Pro	Val	Ser	Leu	Glu	Ile	Asn	
Asp	Cys	Lys	195	Asn	Ile	Phe	Gly	200	Pro	Val	Ser	Leu	Glu	Ile	Asn	
Ser	Ser	His	210	Leu	Gln	Cys	Leu	215	Glu	Gly	Leu	Leu	Asp	Asn	Leu	Val
Ser	Asp	Ser	225	Pro	Leu	Asn	Ile	230	Ser	Glu	Asp	Glu	Val	Asn	Asp	Val
Ser	Ala	Pro	245	Met	Asp	Val	Leu	250	Ser	Leu	Lys	Glu	Phe	Lys	Ser	
Thr	Pro	Glu	260	Asn	Val	Leu	Ala	265	Ser	Leu	Leu	Ser	Val	Cys	Pro	Ser
Ser	Glu	Pro	275	Glu	Lys	Ile	Asn	280	Gln	Glu	Asn	Asp	Phe	Gln	Asn	Glu
Lys	Leu	Gln	290	Lys	Leu	Asp	Asp	295	Gln	Ile	Leu	Gln	Leu	Asn	Glu	Thr
Asn	Asn	Ser	305	Leu	Ile	Asp	Asn	310	Val	Pro	Glu	Lys	Asp	Leu	Arg	Pro
Arg	Asp	Thr	325	Ile	Thr	Ser	Glu	330	Ser	Asp	Tyr	Gly	Asn	Arg	Arg	Glu
Cys	Ser	Arg	340	Val	Pro	Arg	Arg	345	Lys	Ile	Pro	Tyr	Tyr	Ser	Arg	
Thr	Ile	Gln	355	Thr	Ile	Lys	His	360	Asn	Lys	Asn	Asn	Gly	Ala	Phe	Val
Ser	Cys	Asn	370	Arg	Lys	Met	Arg	375	Gln	Pro	Tyr	Leu	Arg	Asp	Leu	Tyr
Arg	Ser	Ser	385	Leu	Val	Asn	Cys	390	Asn	Asn	Leu	Arg	Asp	Leu	Asp	Glu
Lys	Thr	Gly	405	Ile	Lys	Val	Asp	410	Lys	Asn	Phe	Ser	Asp	Asn	Ser	Thr
Tyr	Arg	Ser	420	Val	Glu	Gln	Leu	425	Gln	Glu	Arg	Glu	Met	Arg	Trp	
Lys	Ala	Glu	435	Gln	Thr	Glu	Lys	440	Leu	Met	Asp	Tyr	Ile	Asp	Glu	Leu
His	Lys	Gln	450	Ala	Asp	Glu	Lys	455	Lys	Asp	Val	His	Ser	Gln	Ala	Leu
Thr	Thr	Asp	465	Arg	Leu	Lys	Asp	470	Ala	Ile	Phe	Lys	Glu	Arg	His	Cys
Ala	Gln	Leu	485	Ile	Val	His	Arg	490	Leu	Gln	Asn	Glu	Val	Lys	Lys	
Leu	Thr	Ile	500	Glu	Leu	Met	Lys	505	Arg	Asp	Gln	Gln	Glu	Asp	His	Ile
Arg	His	Leu	515	Arg	Thr	Leu	Glu	520	Ala	Leu	Glu	Lys	Met	Glu	Lys	Gln
Lys	Ala	Gln	530	Gln	Gln	Ala	Ala	535	Gln	Ile	Arg	Leu	Ile	Gln	Glu	Val
Leu	Lys	Ala	545	Ser	Ala	Ala	Asp	550	Arg	Glu	Ile	Asn	Leu	Leu	Arg	Thr
Leu	His	Gln	565	Glu	Lys	Gln	Gln	570	Val	Gln	Gln	Leu	His	Glu	Leu	Leu
Leu	Lys	Glu	580	Glu	His	Arg	Gln	585	Ile	Glu	Thr	Arg	Gln	Phe	Phe	

Thr Asp Ala Glu Phe Gln Asp Ala Leu Thr Lys Arg Leu Cys Lys Glu
 595 600 605
 Glu Arg Lys His Glu Gln Glu Val Lys Glu Tyr Gln Glu Lys Ile Asp
 610 615 620
 Ile Leu Asn Gln Gln Tyr Leu Asp Leu Glu Asn Glu Phe Arg Ile Ala
 625 630 635 640
 Leu Thr Val Glu Ala Arg Arg Phe Lys Asp Val Gln Asp Gly Phe Glu
 645 650 655
 Asp Val Ala Thr Glu Leu Ala Lys Ser Lys His Ala Leu Ile Trp Ala
 660 665 670
 Gln Arg Lys Glu Asn Glu Ser Ser Leu Ile Lys Asp Leu Thr Cys
 675 680 685
 Met Val Lys Glu Gln Lys Thr Lys Leu Ser Glu Val Cys Lys Leu Lys
 690 695 700
 Gln Glu Ala Ala Ala Asn Leu Gln Asn Gln Ile Asn Thr Leu Glu Ile
 705 710 715 720
 Leu Ile Glu Asp Asp Lys Gln Lys Ser Ile Gln Ile Glu Leu Leu Lys
 725 730 735
 His Glu Lys Thr Gln Leu Ile Ser Glu Leu Ala Ala Lys Glu Ser Leu
 740 745 750
 Ile Tyr Gly Leu Arg Thr Glu Arg Lys Val Trp Gly Gln Glu Leu Ala
 755 760 765
 Cys Gln Ser Ser Thr Leu Ser Gln Ser Arg Gly Lys Leu Glu Ala Gln
 770 775 780
 Ile Glu Ser Leu Cys Arg Glu Asn Glu Ser Leu Arg Lys Ser His Glu
 785 790 795 800
 Ser Asp Cys Asp Ala Leu Arg Ile Lys Cys Lys Ile Ile Glu Asp Gln
 805 810 815
 Asn Glu Thr Ile Arg Lys Leu Lys Asp Ser Leu Gln Glu Lys Asp Gly
 820 825 830
 Gln Ile Lys Leu Leu Gln Glu Gln Ile Ala Leu Ile Glu Lys Cys Ser
 835 840 845
 Gln Glu Gln Leu Asn Glu Lys Ser Pro Gln Leu Asp Ser Ile Val Glu
 850 855 860
 Lys Leu Glu Arg His Asn Glu Arg Lys Glu Lys Leu Lys Gln Gln Leu
 865 870 875 880
 Lys Ala Lys Glu Leu Glu Leu Glu Glu Ile Arg Lys Ala Tyr Ser Thr
 885 890 895
 Leu Asn Lys Lys Trp His Asp Lys Gly Glu Leu Leu Ser His Leu Glu
 900 905 910
 Met Gln Val Lys Glu Val Lys Glu Lys Phe Glu Asp Lys Glu Arg Lys
 915 920 925
 Leu Lys Ala Glu Arg Asp Lys Ser Leu Glu Leu Gln Lys Asp Ala Met
 930 935 940
 Glu Lys Leu Gln Asn Met Asp Asp Ala Phe Arg Arg Gln Val Asp Glu
 945 950 955 960
 Ile Val Glu Ala His Gln Ala Glu Ile Met Gln Leu Ala Asn Glu Lys
 965 970 975
 Gln Lys Tyr Ile Asp Cys Ala Asn Leu Lys Gly Asp Tyr Ala Arg Gly
 980 985 990
 Asp

<210> 119
 <211> 52
 <212> PRT
 <213> Mus musculus

<400> 119
 His Ser Gln Ala Leu Ile Thr Thr Asp Arg Leu Lys Asp Ala Ile Phe
 1 5 10 15
 Lys Glu Arg His Cys Lys Ala Gln Leu Glu Ile Ile Val His Arg Leu
 20 25 30
 Gln Asn Glu Val Lys Lys Leu Thr Ile Glu Leu Met Lys Ala Arg Asp
 45

Gln 35
50 Gln Glu Asp

40

45

<210> 120
<211> 403
<212> PRT
<213> Mus musculus

<400> 120
Leu Gly Thr Met Pro Arg Phe Ser Leu Ser Arg Met Thr Pro Pro Leu
1 5 10 15
Pro Ala Arg Val Asp Phe Ser Leu Ala Gly Ala Leu Asn Ala Gly Phe
20 25 30
Lys Glu Thr Arg Ala Ser Glu Arg Ala Glu Met Met Glu Leu Asn Asp
35 40 45
Arg Phe Ala Ser Tyr Ile Glu Lys Val Arg Phe Leu Glu Gln Gln Asn
50 55 60
Lys Ala Leu Ala Ala Glu Leu Asn Gln Leu Arg Ala Lys Glu Pro Thr
65 70 75 80
Lys Leu Ala Asp Val Tyr Gln Ala Glu Leu Arg Glu Leu Arg Leu Arg
85 90 95
Leu Asp Gln Leu Thr Ala Asn Ser Ala Arg Leu Glu Val Glu Arg Asp
100 105 110
Asn Phe Ala Gln Asp Leu Gly Thr Leu Arg Gln Lys Leu Gln Asp Glu
115 120 125
Thr Asn Leu Arg Leu Glu Ala Glu Asn Asn Leu Ala Tyr Arg Gln
130 135 140
Glu Ala His Glu Ala Thr Leu Ala Arg Val Asp Leu Glu Arg Lys Val
145 150 155 160
Glu Ser Leu Glu Glu Glu Ile Gln Phe Leu Arg Lys Ile Tyr Glu Glu
165 170 175
Glu Val Arg Asp Leu Arg Glu Gln Leu Ala Gln Gln Gln Val His Val
180 185 190
Glu Met Asp Val Ala Lys Pro Asp Leu Thr Ala Ala Leu Arg Glu Ile
195 200 205
Arg Thr Gln Tyr Glu Ala Val Ala Thr Ser Asn Met Gln Glu Thr Glu
210 215 220
Glu Trp Tyr Arg Ser Lys Phe Ala Asp Leu Thr Asp Ala Ala Ser Arg
225 230 235 240
Asn Ala Glu Leu Leu Arg Gln Ala Lys His Glu Ala Asn Asp Tyr Arg
245 250 255
Arg Gln Leu Gln Ala Leu Thr Cys Asp Leu Glu Ser Leu Arg Gly Thr
260 265 270
Asn Glu Ser Leu Glu Arg Gln Met Arg Glu Gln Glu Glu Arg His Ala
275 280 285
Arg Glu Ser Ala Ser Tyr Gln Glu Ala Leu Ala Arg Leu Glu Glu Glu
290 295 300
Gly Gln Ser Leu Lys Glu Glu Met Ala Arg His Leu Gln Glu Tyr Gln
305 310 315 320
Asp Leu Leu Asn Val Lys Leu Ala Leu Asp Ile Glu Ile Ala Thr Tyr
325 330 335
Arg Lys Leu Leu Glu Gly Glu Glu Asn Arg Ile Thr Ile Pro Val Gln
340 345 350
Thr Phe Ser Asn Leu Gln Ile Arg Glu Thr Ser Leu Asp Thr Lys Ser
355 360 365
Val Ser Glu Gly His Leu Lys Arg Asn Ile Val Val Lys Thr Val Glu
370 375 380
Met Arg Asp Gly Glu Val Ile Lys Asp Ser Lys Gln Glu His Lys Asp
385 390 395 400
Val Val Met

<210> 121

<211> 45
 <212> PRT
 <213> Mus musculus

<400> 121
 Leu Ala Arg Leu Glu Glu Glu Gly Arg Ser Leu Lys Glu Glu Met Ala
 1 5 10 15
 Arg His Leu Gln Glu Tyr Gln Asp Leu Leu Asn Val Lys Leu Ala Leu
 20 25 30
 Asp Ile Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly
 35 40 45

<210> 122
 <211> 451
 <212> PRT
 <213> Mus musculus

<400> 122
 Met Ala Ser Pro Thr Leu Ser Pro Asp Ser Ser Ser Gln Glu Ala Leu
 1 5 10 15
 Ser Ala Pro Thr Cys Ser Pro Thr Ser Asp Ser Glu Asn Leu Ser Pro
 20 25 30
 Asp Glu Leu Glu Leu Leu Ala Lys Leu Glu Glu Gln Asn Arg Leu Leu
 35 40 45
 Glu Ala Asp Ser Lys Ser Met Arg Ser Met Asn Gly Ser Arg Arg Asn
 50 55 60
 Ser Gly Ser Ser Leu Val Ser Ser Ser Ser Ala Ser Ser Asn Leu Ser
 65 70 75 80
 His Leu Glu Glu Asp Thr Trp Ile Leu Trp Gly Arg Ile Ala Asn Glu
 85 90 95
 Trp Glu Glu Trp Arg Arg Arg Lys Glu Lys Leu Leu Lys Glu Leu Ile
 100 105 110
 Arg Lys Gly Ile Pro His His Phe Arg Ala Ile Val Trp Gln Leu Leu
 115 120 125
 Cys Ser Ala Thr Asp Met Pro Val Lys Asn Gln Tyr Ser Glu Leu Leu
 130 135 140
 Lys Met Ser Ser Pro Cys Glu Lys Leu Ile Arg Arg Asp Ile Ala Arg
 145 150 155 160
 Thr Tyr Pro Glu His Glu Phe Phe Lys Gly Gln Asp Ser Leu Gly Gln
 165 170 175
 Glu Val Leu Phe Asn Val Met Lys Ala Tyr Ser Leu Val Asp Arg Glu
 180 185 190
 Val Gly Tyr Cys Gln Gly Ser Ala Phe Ile Val Gly Leu Leu Met
 195 200 205
 Gln Met Pro Glu Glu Glu Ala Phe Cys Val Phe Val Arg Leu Met Gln
 210 215 220
 Glu Tyr Arg Leu Arg Glu Leu Phe Lys Pro Ser Met Ala Glu Leu Gly
 225 230 235 240
 Leu Cys Ile Tyr Gln Phe Glu Tyr Met Leu Gln Glu Gln Leu Pro Asp
 245 250 255
 Leu Asn Thr His Phe Arg Ser Gln Ser Phe His Thr Ser Met Tyr Ala
 260 265 270
 Ser Ser Trp Phe Leu Thr Leu Phe Leu Thr Thr Phe Pro Leu Pro Val
 275 280 285
 Ala Thr Arg Val Phe Asp Ile Phe Met Tyr Glu Gly Leu Glu Ile Val
 290 295 300
 Phe Arg Val Gly Leu Ala Leu Leu Gln Val Asn Gln Thr Glu Leu Met
 305 310 315 320
 Gln Leu Asp Met Glu Gly Met Ser Gln Tyr Phe Gln Arg Val Ile Pro
 325 330 335
 His Gln Phe Asp Ser Cys Pro Asp Lys Leu Val Leu Lys Ala Tyr Gln
 340 345 350
 Val Lys Tyr Asn Pro Lys Lys Met Lys Arg Leu Glu Lys Glu Tyr Ala
 355 360 365

Ala	Met	Lys	Ser	Lys	Glu	Met	Glu	Glu	Gln	Ile	Glu	Ile	Lys	Arg	Leu
	370					375					380				
Arg	Thr	Glu	Asn	Arg	Leu	Leu	Lys	Gln	Arg	Ile	Glu	Thr	Leu	Glu	Lys
385					390					395					400
Gly	Gln	Val	Thr	Arg	Ala	Gln	Glu	Ala	Glu	Glu	Asn	Tyr	Val	Ile	Lys
				405					410					415	
Arg	Glu	Leu	Ala	Val	Val	Arg	Gln	Gln	Cys	Ser	Ser	Thr	Ala	Glu	Asp
			420					425					430		
Leu	Gln	Lys	Ala	Gln	Ser	Thr	Ile	Arg	Gln	Leu	Gln	Glu	Gln	Gln	Val
		435					440					445			
Pro	Gly	Gly													
	450														

<210> 123
 <211> 104
 <212> PRT
 <213> Mus musculus

Ala	Leu	Leu	Gln	Val	Asn	Gln	Thr	Glu	Leu	Met	Gln	Leu	Asp	Met	Glu
1				5					10					15	
Gly	Met	Ser	Gln	Tyr	Phe	Gln	Arg	Val	Ile	Pro	His	Gln	Phe	Asp	Ser
			20					25					30		
Cys	Pro	Asp	Lys	Leu	Val	Leu	Lys	Ala	Tyr	Gln	Val	Lys	Tyr	Asn	Pro
		35					40					45			
Lys	Lys	Met	Lys	Arg	Leu	Glu	Lys	Glu	Tyr	Ala	Ala	Met	Lys	Ser	Lys
	50					55					60				
Glu	Met	Glu	Glu	Gln	Ile	Glu	Ile	Lys	Arg	Leu	Arg	Thr	Glu	Asn	Arg
65					70					75					80
Leu	Leu	Lys	Gln	Arg	Ile	Gly	Thr	Leu	Glu	Lys	Glu	Ser	Ala	Ala	Leu
				85					90					95	
Ala	Asp	Arg	Leu	Ile	Gln	Gly	Ala								
			100												

<210> 124
 <211> 963
 <212> PRT
 <213> Mus musculus

Met	Ala	Asp	Pro	Ala	Glu	Cys	Asn	Ile	Lys	Val	Met	Cys	Arg	Phe	Arg
1				5					10					15	
Pro	Leu	Asn	Glu	Ser	Glu	Val	Asn	Arg	Gly	Asp	Lys	Tyr	Val	Ala	Lys
			20					25					30		
Phe	Gln	Gly	Glu	Asp	Thr	Val	Val	Ile	Ala	Ser	Lys	Pro	Tyr	Ala	Phe
		35					40					45			
Asp	Arg	Val	Phe	Gln	Ser	Ser	Thr	Ser	Gln	Glu	Gln	Val	Tyr	Asn	Asp
	50					55					60				
Cys	Ala	Lys	Lys	Ile	Val	Lys	Asp	Val	Leu	Glu	Gly	Tyr	Asn	Gly	Thr
65					70				75						80
Ile	Phe	Ala	Tyr	Gly	Gln	Thr	Ser	Ser	Gly	Lys	Thr	His	Thr	Met	Glu
				85					90					95	
Gly	Lys	Leu	His	Asp	Pro	Glu	Gly	Met	Gly	Ile	Ile	Pro	Arg	Ile	Val
			100					105					110		
Gln	Asp	Ile	Phe	Asn	Tyr	Ile	Tyr	Ser	Met	Asp	Glu	Asn	Leu	Glu	Phe
		115					120					125			
His	Ile	Lys	Val	Ser	Tyr	Phe	Glu	Ile	Tyr	Leu	Asp	Lys	Ile	Arg	Asp
	130					135					140				
Leu	Leu	Asp	Val	Ser	Lys	Thr	Asn	Leu	Ser	Val	His	Glu	Asp	Lys	Asn
145					150					155					160
Arg	Val	Pro	Tyr	Val	Lys	Gly	Cys	Thr	Glu	Arg	Phe	Val	Cys	Ser	Pro
				165					170					175	
Asp	Glu	Val	Met	Asp	Thr	Ile	Asp	Glu	Gly	Lys	Ser	Asn	Arg	His	Val
			180					185					190		

Ala	Val	Thr	Asn	Met	Asn	Glu	His	Ser	Ser	Arg	Ser	His	Ser	Ile	Phe
		195					200					205			
Leu	Ile	Asn	Val	Lys	Gln	Glu	Asn	Thr	Gln	Thr	Glu	Gln	Lys	Leu	Ser
	210					215					220				
Gly	Lys	Leu	Tyr	Leu	Val	Asp	Leu	Ala	Gly	Ser	Glu	Lys	Val	Ser	Lys
	225				230				235						240
Thr	Gly	Ala	Glu	Gly	Ala	Val	Leu	Asp	Glu	Ala	Lys	Asn	Ile	Asn	Lys
				245					250					255	
Ser	Leu	Ser	Ala	Leu	Gly	Asn	Val	Ile	Ser	Ala	Leu	Ala	Glu	Gly	Ser
			260					265					270		
Thr	Tyr	Val	Pro	Tyr	Arg	Asp	Ser	Lys	Met	Thr	Arg	Ile	Leu	Gln	Asp
		275					280					285			
Ser	Leu	Gly	Gly	Asn	Cys	Arg	Thr	Thr	Ile	Val	Ile	Cys	Cys	Ser	Pro
	290					295					300				
Ser	Ser	Tyr	Asn	Glu	Ser	Glu	Thr	Lys	Ser	Thr	Leu	Leu	Phe	Gly	Gln
	305				310					315					320
Arg	Ala	Lys	Thr	Ile	Lys	Asn	Thr	Val	Cys	Val	Asn	Val	Glu	Leu	Thr
				325					330					335	
Ala	Glu	Gln	Trp	Lys	Lys	Lys	Tyr	Glu	Lys	Glu	Lys	Glu	Lys	Asn	Lys
			340					345					350		
Thr	Leu	Arg	Asn	Thr	Ile	Gln	Trp	Leu	Glu	Asn	Glu	Leu	Asn	Arg	Trp
		355					360					365			
Arg	Asn	Gly	Glu	Thr	Val	Pro	Ile	Asp	Glu	Gln	Phe	Asp	Lys	Glu	Lys
	370					375					380				
Ala	Asn	Leu	Glu	Ala	Phe	Thr	Ala	Asp	Lys	Asp	Ile	Ala	Ile	Thr	Ser
	385				390					395					400
Asp	Lys	Gly	Ala	Ala	Ala	Val	Gly	Met	Ala	Gly	Ser	Phe	Thr	Asp	Ala
				405					410					415	
Glu	Arg	Arg	Lys	Cys	Glu	Glu	Glu	Leu	Ala	Lys	Leu	Tyr	Lys	Gln	Leu
			420					425					430		
Asp	Asp	Lys	Asp	Glu	Glu	Ile	Asn	Gln	Gln	Ser	Gln	Leu	Val	Glu	Lys
		435					440					445			
Leu	Lys	Thr	Gln	Met	Leu	Asp	Gln	Glu	Glu	Leu	Leu	Ala	Ser	Thr	Arg
	450					455					460				
Arg	Asp	Gln	Asp	Asn	Met	Gln	Ala	Glu	Leu	Asn	Arg	Leu	Gln	Ala	Glu
	465				470					475					480
Asn	Asp	Ala	Ser	Lys	Glu	Glu	Val	Lys	Glu	Val	Leu	Gln	Ala	Leu	Glu
				485					490					495	
Glu	Leu	Ala	Val	Asn	Tyr	Asp	Gln	Lys	Ser	Gln	Glu	Val	Glu	Asp	Lys
			500					505					510		
Thr	Lys	Glu	Tyr	Glu	Leu	Leu	Thr	Asp	Glu	Phe	Asn	Gln	Lys	Ser	Ala
		515					520					525			
Thr	Leu	Ala	Ser	Ile	Asp	Ala	Glu	Leu	Gln	Lys	Leu	Lys	Glu	Met	Thr
	530					535					540				
Asn	His	Gln	Lys	Lys	Arg	Ala	Ala	Glu	Met	Met	Ala	Ser	Leu	Leu	Lys
	545				550					555					560
Asp	Leu	Ala	Glu	Ile	Gly	Ile	Ala	Val	Gly	Asn	Asn	Asp	Val	Lys	Gln
				565					570					575	
Pro	Glu	Gly	Thr	Gly	Met	Ile	Asp	Glu	Glu	Phe	Thr	Val	Ala	Arg	Leu
			580					585					590		
Tyr	Ile	Ser	Lys	Met	Lys	Ser	Glu	Val	Lys	Thr	Met	Val	Lys	Arg	Cys
		595					600					605			
Lys	Gln	Leu	Glu	Ser	Thr	Gln	Thr	Glu	Ser	Asn	Lys	Lys	Met	Glu	Glu
	610					615					620				
Asn	Glu	Lys	Glu	Leu	Ala	Ala	Cys	Gln	Leu	Arg	Ile	Ser	Gln	His	Glu
	625				630					635					640
Ala	Lys	Ile	Lys	Ser	Leu	Thr	Glu	Tyr	Leu	Gln	Asn	Asp	Glu	Gln	Lys
				645					650					655	
Lys	Arg	Gln	Leu	Glu	Glu	Ser	Leu	Asp	Ser	Leu	Gly	Glu	Glu	Leu	Val
			660					665					670		
Gln	Leu	Arg	Ala	Gln	Glu	Lys	Val	His	Glu	Met	Glu	Lys	Glu	His	Leu
		675					680					685			
Asn	Lys	Val	Gln	Thr	Ala	Asn	Glu	Val	Lys	Gln	Ala	Val	Glu	Gln	Gln
	690					695					700				

Ile Gln Ser His Arg Glu Thr His Gln Lys Gln Ile Ser Ser Leu Arg
 705 710 715 720
 Asp Glu Val Glu Ala Lys Glu Lys Leu Ile Thr Asp Leu Gln Asp Gln
 725 730 735
 Asn Gln Lys Met Val Leu Glu Thr Glu Arg Leu Arg Val Glu His Glu
 740 745 750
 Arg Leu Lys Ala Thr Asp Gln Glu Lys Ser Arg Lys Leu His Glu Leu
 755 760 765
 Thr Val Met Gln Asp Arg Arg Glu Gln Ala Arg Gln Asp Leu Lys Gly
 770 775 780
 Leu Glu Glu Thr Val Ala Lys Glu Leu Gln Thr Leu His Asn Leu Arg
 785 790 795 800
 Lys Leu Phe Val Gln Asp Leu Ala Thr Arg Val Lys Lys Ser Ala Glu
 805 810 815
 Val Asp Ser Asp Asp Thr Gly Gly Ser Ala Ala Gln Lys Gln Lys Ile
 820 825 830
 Ser Phe Leu Glu Asn Asn Leu Glu Gln Leu Thr Lys Val His Lys Gln
 835 840 845
 Leu Val Arg Asp Asn Ala Asp Leu Arg Cys Glu Leu Pro Lys Leu Glu
 850 855 860
 Phe Arg Leu Arg Ala Thr Ala Glu Arg Val Lys Ala Leu Glu Ser Ala
 865 870 875 880
 Leu Lys Glu Ala Lys Glu Asn Ala Ser Arg Asp Arg Lys Arg Tyr Gln
 885 890 895
 Gln Glu Val Asp Arg Ile Lys Glu Ala Val Arg Ser Lys Asn Met Ala
 900 905 910
 Arg Arg Gly His Ser Ala Gln Ile Ala Lys Pro Ile Arg Pro Gly Gln
 915 920 925
 His Pro Ala Ala Ser Pro Thr His Pro Gly Thr Val Arg Gly Gly Gly
 930 935 940
 Ser Phe Val Gln Asn Asn Gln Pro Val Gly Leu Arg Gly Gly Gly Gly
 945 950 955 960
 Lys Gln Ser

<210> 125
 <211> 45
 <212> PRT
 <213> Mus musculus

<400> 125
 Val Cys Val Asn Val Glu Leu Thr Ala Glu Gln Trp Lys Lys Lys Tyr
 1 5 10 15
 Glu Lys Glu Lys Glu Lys Asn Lys Thr Leu Arg Asn Thr Ile Gln Trp
 20 25 30
 Leu Glu Asn Glu Leu Asn Arg Trp Arg Asn Arg Glu Thr
 35 40 45

<210> 126
 <211> 306
 <212> DNA
 <213> Mus musculus

<400> 126
 atgttgagtc gactgcagga gctccgcaag gaggaggaaa ccctgctgctg tctaaaggcg 60
 gctctacacg accaactgaa ccgcctcaag gttgaagaat tagcccttica atccatgata 120
 aattctcgag gaaggaccga gacactgtct tctcagcctg cacctgaaca gttatgtgat 180
 atgtccctac atgtagacaa cgaagtgaca ataaatcaga ctacactgaa gctgagcaca 240
 aggagcccta tggaagaaga ggaggaggaa gaggaggagg aagaggagga ggaagaatct 300
 gattcg 306

<210> 127
 <211> 260
 <212> DNA

<213> Mus musculus

<400> 127

gtagaaggca	gcgccctaag	gaagtgggaag	gggatgttga	gtcgactgca	ggagctccgc	60
aaggaggagg	aaaccctgct	gcgtctaaag	gcggctctac	acgaccaact	gaaccgcctc	120
aaggttgaag	aattagccct	tcaatccgtg	ataaattctc	gaggaaggac	cgagacactg	180
tcttctcagc	ctgcacctga	acagttatgt	gatatgtccc	tacatgtaga	ccacgaagtg	240
acaataaatc	agacgactga					260

<210> 128

<211> 252

<212> DNA

<213> Mus musculus

<400> 128

agcgccctaa	ggaagtggaa	ggggatgttg	agtcgactgc	aggagctccg	caaggaggag	60
gaaacccagc	tgctgtctaaa	ggcggctcta	cacgaccaac	tgaaccgcct	caaggttgaa	120
gaattagccc	ttcaatccat	gataaattct	cgaggaagga	ccgagacact	gtcttctcag	180
cctgcacctg	aacagttatg	tgatatgtcc	ctacatgtag	accacgaagt	gacaataaat	240
cagactacac	tg					252

<210> 129

<211> 250

<212> DNA

<213> Mus musculus

<400> 129

agcgccctaa	ggaagtggaa	ggggatgttg	agtcgactgc	aggagctccg	caaggaggag	60
gaaacccagc	tgctgtctaaa	ggcggctcta	cacgaccaac	tgaaccgcct	caaggttgaa	120
gaattagccc	ttcaatccat	gataaattct	cgaggaagga	ccgagacact	gtcttctcag	180
cctgcacctg	aacagttatg	tgatatgtcc	ctacatgtag	acaacgaagt	gacaataaat	240
cagaaattgg						250

<210> 130

<211> 249

<212> DNA

<213> Mus musculus

<400> 130

agcgccctaa	ggaagtggaa	ggggatgttg	agtcgactgc	aggagctccg	caaggaggag	60
gaaacccagc	tgcatctaaa	ggcggctcta	cacgaccaac	tgaaccgcct	caaggttgaa	120
gaattagccc	ttcaatccat	gataaattct	cgaggaagga	ccgagacact	gtcttctcag	180
cctgcacctg	aacagttatg	tgatatgtcc	ctacatgtag	acaacgaagt	aacaataaat	240
cagaaattgg						249

<210> 131

<211> 249

<212> DNA

<213> Mus musculus

<400> 131

agcgccctaa	ggaagtggaa	gggggtgttg	agtcgactgc	aggagctccg	caaggaggag	60
gaaaccctgc	tgctgtctaaa	ggcggctcta	cacgaccaac	tgaaccgcct	caaggttgaa	120
gaattagccc	ttcaatccat	gataaattct	cgaggaagga	ccgagacact	gtcttctcag	180
cctgcacctg	aacagttatg	tgatatgtcc	ctacatgtag	accacgaagt	gacaataaat	240
cagagcaaa						249

<210> 132

<211> 195

<212> DNA

<213> Mus musculus

<400> 132

agcgccctaa	ggaagtggaa	ggggatgttg	agtcgactgc	aggagctccg	caaggaggag	60
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gaaaccagc	tgcgtctaaa	ggcggctcta	cacgaccaac	tgaaccgcct	caagggttgaa	120
gaattagccc	ttcaatccat	gataaattct	cgaagaagga	ccgagacact	gtctttctcag	180
cctgcacctg	aatca					195

<210> 133
 <211> 227
 <212> DNA
 <213> Mus musculus

<400> 133						
gccctaagga	agtggaaggg	gatgttgagt	cgactgcagg	agctccgcaa	ggaggaggaa	60
accctgctgc	gtctaaaggc	ggctctacac	gaccaactga	accgcctcaa	ggttgaagaa	120
ttagcccttc	aatccatgat	aaattctcga	ggaaggaccg	agacactgtc	ttctcagcct	180
gcacctgaac	agttatgtga	tatgtcccta	catgtagaca	acgaacg		227

<210> 134
 <211> 289
 <212> DNA
 <213> Mus musculus

<400> 134						
ccctaaggaa	gtggaagggg	atgttgagtc	gactgcagga	gctccgcaag	gaggaggaaa	60
ccctgctgcg	tcaaaaggcg	gctctacacg	accaactgaa	ccgcctcaag	gttgaagaat	120
taccccttca	atccatgata	aattctcgag	gaaggaccga	gacactgtct	tctcagcctg	180
cacctgaaca	gttatgtgat	atgtccctac	atgtagacaa	cgaagtgaca	ataaatcaga	240
ctacactgaa	gctgagcaca	aggagcccta	tggaagaaaa	ggaggagga		289

<210> 135
 <211> 248
 <212> DNA
 <213> Mus musculus

<400> 135						
ccccaggaa	gtggaagggc	atgttgagtc	gactgcagga	gctccgcaag	gaggaggaaa	60
ccctgctgcg	tctaaaggcg	gctctacacg	accagctgaa	ccgcctcaag	gttgaagaat	120
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cctgaacagt	tatgtgatat	gtccctacat	gtagacaacg	aagtgacaat	aaatcagact	240
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gcccttcaat	ccatgataaa	ttctcgagga	aggaccgaga	caccgtcttc	tcagcctgca	180
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acaccg						246

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<210> 152
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 <212> DNA
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ctg							243

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ccg							243

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ccg							243

<210> 164
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ccg							243

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ccg						243

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ccg						243

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accaa						245

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ctg						243

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 cca 243

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 cca 243

<210> 174
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 ttcaatccat gataaattct agaggaagg 149

<210> 175
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 tccatgataa attctcgagg aaggaccgag acactgtctt ctgagcctgc acctgaacag 180
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<210> 176
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<210> 179
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ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt	180
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<210> 181
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 <213> Mus musculus

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ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt	180
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<210> 182
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 <212> DNA
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<210> 183
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<210> 184
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ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt		180	
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 <212> DNA
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ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt		180	
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<210> 186
 <211> 209
 <212> DNA
 <213> Mus musculus

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ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt		180	
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<210> 187
 <211> 208
 <212> DNA
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ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt		180	
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<210> 188
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<212> DNA
 <213> Mus musculus

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 ataaattctc gaggaaggac cgagacactg tcttctcagc ctgcacctga acagttatgt 180
 gatacgtccc tacatgtaac aac 203

<210> 189
 <211> 138
 <212> DNA
 <213> Mus musculus

<400> 189
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<210> 190
 <211> 138
 <212> DNA
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<210> 191
 <211> 139
 <212> DNA
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<210> 192
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<400> 192
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 ttctcgagga aggaccgaga cactgtcttc tcagcctgca cctgaacagt tatgtgatat 180
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<210> 193
 <211> 208
 <212> DNA
 <213> Mus musculus

<400> 193
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 gtccctacat gtagacaacg aagcgaca 208

<210> 194
 <211> 208
 <212> DNA

<213> Mus musculus

<400> 194

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ttctcgagga	aggaccgaga	cactgtcttc	tcagcctgca	cctgaacagt	tatgtgatat	180
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<210> 195

<211> 200

<212> DNA

<213> Mus musculus

<400> 195

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ggaaggaccg	agacactgtc	ttctcagcct	gcacctgaac	agttatgtga	tatgtcccta	180
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<210> 196

<211> 183

<212> DNA

<213> Mus musculus

<400> 196

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gaccaactga	accgcctcaa	ggttgaagaa	ttagcccttc	aatccatgat	aaattctcga	120
ggaaggaccg	agacactgtc	ttctcagcct	gcacctgaac	aatgtcccta	catgttgaca	180
acg						183

<210> 197

<211> 183

<212> DNA

<213> Mus musculus

<400> 197

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acg						183

<210> 198

<211> 183

<212> DNA

<213> Mus musculus

<400> 198

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ggaaggaccg	agacactgtc	ttctcagcct	gcacctgaac	aatgtcccta	catgttgaca	180
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<210> 199

<211> 120

<212> DNA

<213> Mus musculus

<400> 199

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<210> 200

<211> 2868

<212> DNA

<213> Mus musculus

<400> 200

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acaatttttg	catatgggca	gacttcatca	ggaaaaactc	ataccatgga	ggggaagtta	300
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<211> 183

<212> DNA

<213> Mus musculus

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 gcc 183

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 gcc 183

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 <212> DNA
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 gagaagaggc ttcgtgctac cgcagaacgc gtcatggcct tggagagtgc gctgaaagag 180
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<210> 206
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 <212> DNA
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<210> 207
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 gccaaaggaga ga 192

<210> 208
 <211> 162
 <212> DNA
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<400> 208
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 agtgcgctga aagaggccaa ggagaatgcc atgagagaca ga 162

<210> 209
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<210> 210
 <211> 162
 <212> DNA
 <213> Mus musculus

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<210> 211
 <211> 162
 <212> DNA
 <213> Mus musculus

<400> 211
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 agtgcgctga aagaggccaa ggagaatgcc atgagagaca ga 162

<210> 212
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 <212> DNA
 <213> Mus musculus

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 <212> DNA
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<210> 214
 <211> 147

<212> DNA
 <213> Mus musculus

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<210> 215
 <211> 153
 <212> DNA
 <213> Mus musculus

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<210> 216
 <211> 146
 <212> DNA
 <213> Mus musculus

<400> 216
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 catctggaga tggagctgaa caggtg 146

<210> 217
 <211> 210
 <212> DNA
 <213> Mus musculus

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 aaaaagaaat atgaaaaaga gaaagagaag aacaaggcct tgaagagtgt cctccagcat 180
 ctggagatgg agctgaacag gtggaggaat 210

<210> 218
 <211> 3081
 <212> DNA
 <213> Mus musculus

<400> 218
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<210> 219
 <211> 158
 <212> DNA
 <213> Mus musculus

<400> 219						
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<210> 220
 <211> 177
 <212> DNA
 <213> Mus musculus

<400> 220						
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<210> 221
 <211> 186
 <212> DNA
 <213> Mus musculus

<400> 221						
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gagggg						186

<210> 222
 <211> 186
 <212> DNA
 <213> Mus musculus

<400> 222
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 aaggac 186

<210> 223
 <211> 180
 <212> DNA
 <213> Mus musculus

<400> 223
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 gagagttaag gccctggagg gtgcactgaa ggaggccaag gagggcgcta tgaaggacga 180

<210> 224
 <211> 37
 <212> DNA
 <213> Mus musculus

<400> 224
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<210> 225
 <211> 843
 <212> DNA
 <213> Mus musculus

<400> 225
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 atc 843

<210> 226
 <211> 219
 <212> DNA
 <213> Mus musculus

<400> 226
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 tcacctactc cccgagccac ggccccacag acccaacatg tctctcctat gcgtcaagt 180
 gagcccccaa ccaagaaagg agccacacca gcagaggtg 219

<210> 227

<211> 200
 <212> DNA
 <213> Mus musculus

<400> 227
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 gccacgaccc cacagaccca acatgtctct cctatgctgc aagtggagcc cccaaccaag 180
 aaaggagcca caccagcaga 200

<210> 228
 <211> 268
 <212> DNA
 <213> Mus musculus

<220>
 <221> Unsure
 <222> (172)

<400> 228
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 agagaagagt tcacctactc cccgagccac ggccccacag acccaacatg tntttccttt 180
 gcgtcaagtg gagcccccaa ccaagaaagg agccacacca gcagaggacg atgaggacaa 240
 ggacattgac ctgttcggca gaaacgag 268

<210> 229
 <211> 356
 <212> DNA
 <213> Mus musculus

<400> 229
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 cctggagcct ccagtgagacc tgggtggagac cacagtgagc tcattgtgag gattaccagt 180
 ctggaagtgg agaaccagaa ccttcgaggc gtggtgcaag atttgcagca ggccatttcc 240
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 ccacagaccc aacatgtctc tcccctgcgt caagtggagc cccaaccaaa gagagg 356

<210> 230
 <211> 2547
 <212> DNA
 <213> Mus musculus

<400> 230
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<210> 231
 <211> 150
 <212> DNA
 <213> Mus musculus

<400> 231						
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gctcgtcatt	tgcgagaata	ccaggatctc	cttaacgtca	agatggccct	ggacatcgag	120
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<210> 232
 <211> 167
 <212> DNA
 <213> Mus musculus

<400> 232						
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aagtgggaaa	tggtctcgta	tttgcgagaa	taccaggatc	tccttaacgt	caagatggcc	120
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<210> 233
 <211> 159
 <212> DNA
 <213> Mus musculus

<400> 233						
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<210> 234
 <211> 116
 <212> DNA
 <213> Mus musculus

<400> 234						
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<210> 235
 <211> 2988
 <212> DNA
 <213> Mus musculus

<400> 235
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<210> 236
 <211> 204
 <212> DNA
 <213> Mus musculus

<400> 236
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tccttgaccc	agaggctaca	ccgggagttt	gtgcccaagc	ccgaggcaca	gggccagcta	180
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<210> 237
 <211> 204
 <212> DNA
 <213> Mus musculus

<400> 237						
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cagcagttgc	ggaggagcat	gagg				204

<210> 238
 <211> 204
 <212> DNA
 <213> Mus musculus

<400> 238						
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<210> 239
 <211> 1350
 <212> DNA
 <213> Mus musculus

<400> 239						
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 <213> Mus musculus

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 <213> Mus musculus

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 <212> DNA
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 <211> 258
 <212> DNA
 <213> Mus musculus

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<210> 244
 <211> 1455
 <212> DNA
 <213> Mus musculus

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 <213> Mus musculus

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<210> 246
 <211> 4011
 <212> DNA
 <213> Mus musculus

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 <213> Mus musculus

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 <211> 2979
 <212> DNA
 <213> Mus musculus

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 <213> Mus musculus

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 <213> Mus musculus

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 <213> Mus musculus

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 <212> DNA
 <213> Mus musculus

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 <211> 135
 <212> DNA
 <213> Mus musculus

<400> 255
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<210> 256
 <211> 5346
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> vector CMV-FosCBPzz

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<220>
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<213> Artificial Sequence
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 <223> random primer for reverse transcription
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<210> 265
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<213> Artificial Sequence

<220>
<223> PCR 5' primer (029)

<400> 265
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<210> 266
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR 3' primer

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